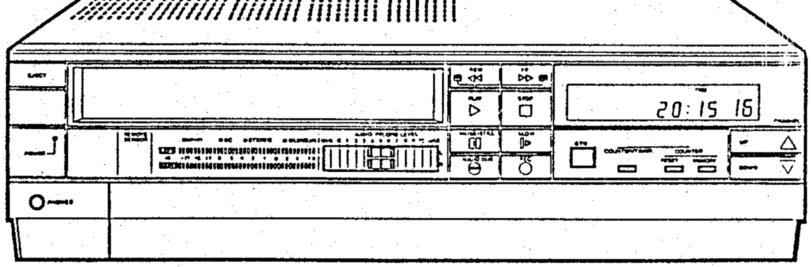
Service Manual

ORION VHS PAL

Video Cassette Recorder

Hi-Fi STEREO

Model VH-2004HS
VH-2204HS



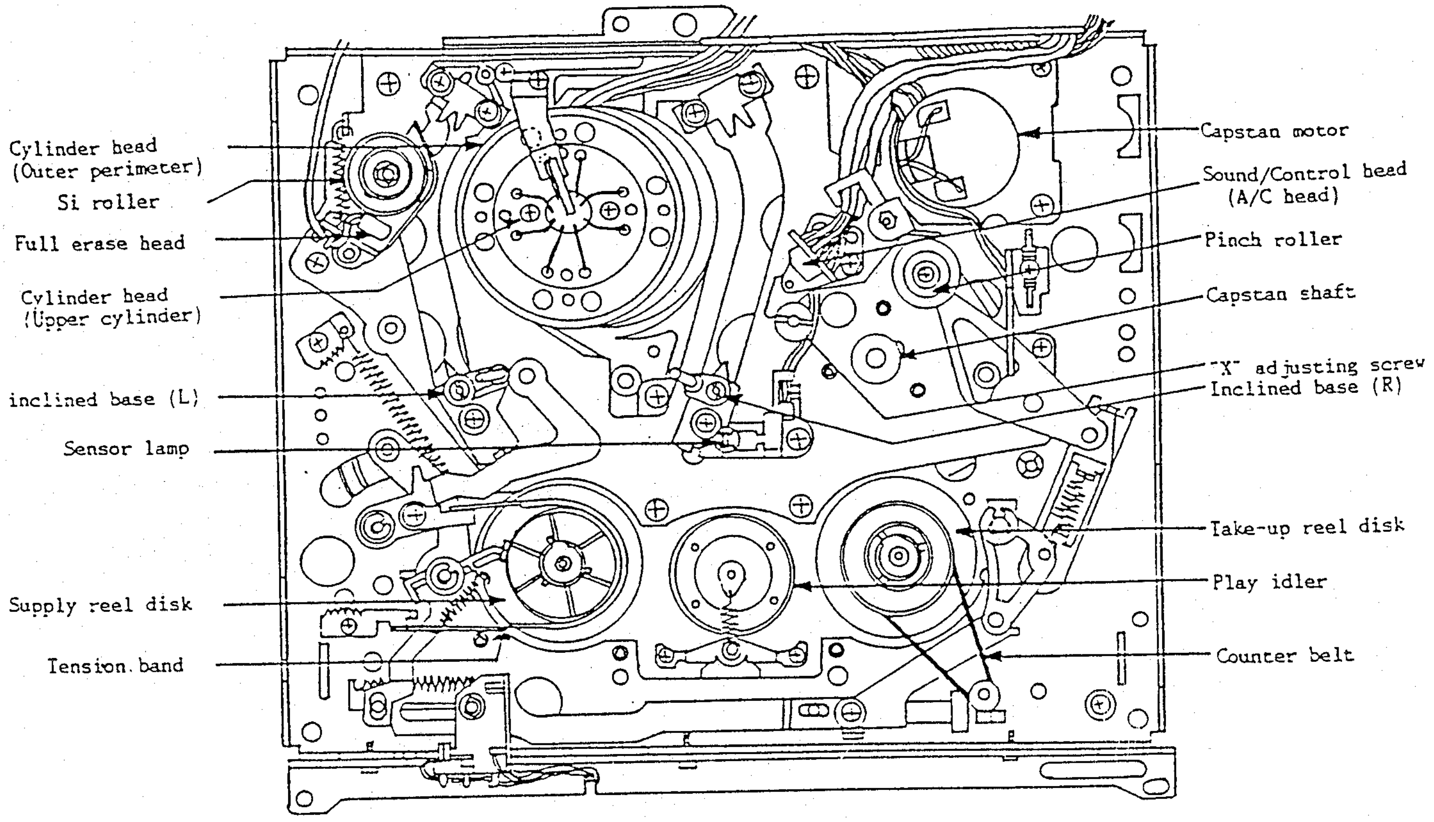
Bestell-Nr.:

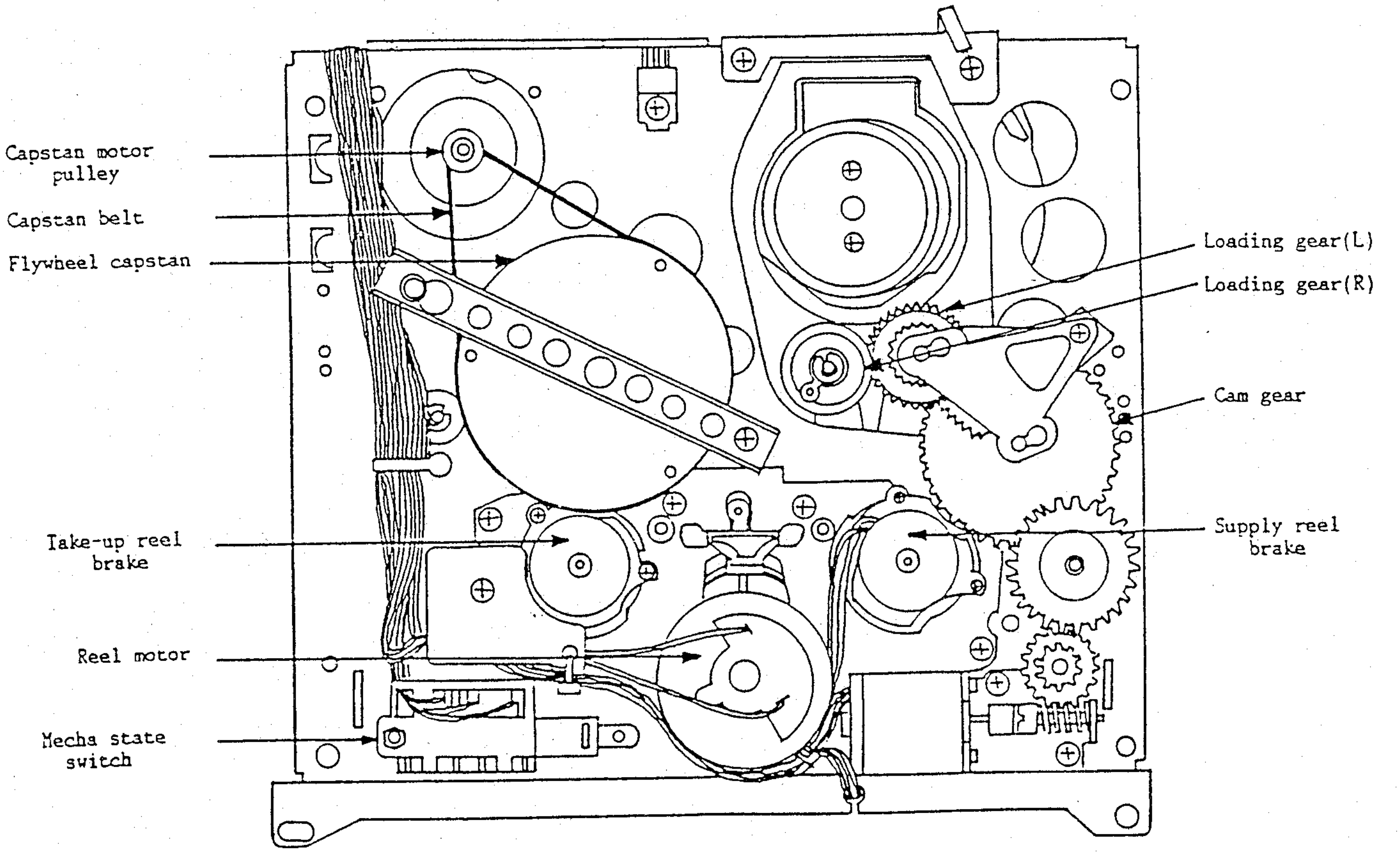
1711

SPECIFICATIONS

Power Source:	220V 50Hz
Power Consumption:	Approx. 47 watts
Temperature:	5°C ~ 40°C
Video System:	CCIR: 625 lines, 50 fields PAL and SECAM/OST color signal
Video Recording System:	2 rotary heads, helical scanning system Luminance: FM azimuth recording Color signal: converted subcarrier phase shift recording
Audio Track:	1 track
Tape Format:	Tape width 12.7 mm high density tape
Tape Speed:	23.39 mm/s
Record/Playback Time:	240 min. with E-240
FF/REW Time:	Less than 7.5 min. with E-240
Heads:	Video: 2 rotary heads Audio/Control: 1 stationary head Erase: 1 full track erase
Input Level:	Video: VIDEO IN connector(BNC) 1.0Vp-p, 75 ohm unbalanced Audio: LINE IN jack -8 dB, 50K ohm unbalanced
Output Level:	Video: VIDEO OUT connector(BNC) 1.0Vp-p, 75 ohm unbalanced Audio: LINE OUT jack -6 dB, 600 ohm unbalanced
Hi-Fi Audio:	Dynamic Range: 80 dB (Hi-Fi Sound Track) Audio Frequency Response: 20 Hz ~ 10 KHz Wow and Flutter: 0.005% Wrms
Normal Audio:	S/N: 40 dB Frequency Response: 125 Hz ~ 10 KHz Wow and Flutter: 0.5 Wrms Distortion: 2.5%
RF Output Channel:	36 (±2)

DECK PARTS LOCATION


Cylinder head
(Outer perimeter)
Si roller
Full erase head
Cylinder head
(Upper cylinder)
inclined base (L)
Sensor lamp
Supply reel disk
Tension band
Capstan motor
Sound/Control head
(A/C head)
Pinch roller
Capstan shaft
"X" adjusting screw
Inclined base (R)
Take-up reel disk
Play idler
Counter belt


Capstan motor
pulley
Capstan belt
Flywheel capstan
Take-up reel
brake
Reel motor
Mecha state
switch
Loading gear(L)
Loading gear(R)
Cam gear
Supply reel
brake

● PRECAUTION

○ Remove the following before adjusting the Deck and then start working.

1. Top Cabinet (2 pieces of screws)
2. Bottom Plate (7 pieces of screws)
3. Front Panel (3 pieces of screws)
4. Shield Plate (2 pieces of screws)
5. Stage (Refer to stage removal and fixing up)

Carefully read each items in ● NOTE sections before start working.

To operate the Deck in the state which leave the stage remove from the unit.

* Short the Cassette In Switch Terminal with the Deck Chassis.
* Place an object which weighs between 350g and 500g on the Video Tape to keep it stayed while using the Video Cassette Tape.
  (Do not place an object which weighs over 500g.)

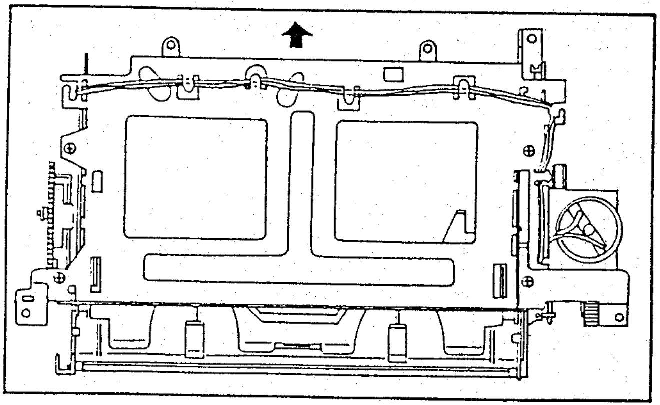
HOW TO REMOVE AND INSTALL STAGE

● REMOVAL

1. Remove two pieces of screws (M3x8) in YCA PCB.
2. Remove the leads for 2 pin connector, which is along the stage, from the tab of the stage.
3. Disconnect the 9 pin connector, which has been connected to the stage PCB, from the system control PCB.
4. Remove 2 pieces of screws fixed to inside panel.
5. Remove 2 screws (Tap-tight Cup Head, M3x6 Red) while stage is locked when power switch is OFF.
6. Push the stage toward arrow mark, and lift up to remove the stage.

● NOTE

1. When you remove and install stage, be careful it may not touch guide pin or cylinder head.
2. Be careful not to break connectors or cut leads.



HOW TO INSTALL

* The installation shall be done in reverse order to removal.

● NOTE AFTER INSTALLMENT

1. Check the following:

a. Make sure that the Front Loading Operation works well when turning on the power and then inserting a cassette pack into the stage.
b. If it becomes play mode after Play Button is pushed.
c. If it becomes recording mode after Recording Button is pushed.
d. If it ejects after Eject Button is pushed.

● NOTE

1. Under this operation system, end sensor and start sensor are opened. So auto rewind at the time of tape end will not work.
2. When you want to make tape run without stage, put about 500g weight (do not exceed over 500g).

■ A-1: REPLACEMENT OF REEL DISK AND CONFIRMATION OF ITS HEIGHT

● REMOVAL

(Supply Reel Disk)

1. Separate mecha brake from reel disk.
2. Remove tension band.
3. Remove polyslider washer ①.
4. Pull supply reel disk ③ upward and replace it.

(Take-up Reel Disk)

1. Separate mecha brake from reel disk.
2. Remove belt pulley ⑥.
3. Remove polyslider washer ①.
4. Pull take-up reel disk ④ upward and replace it.

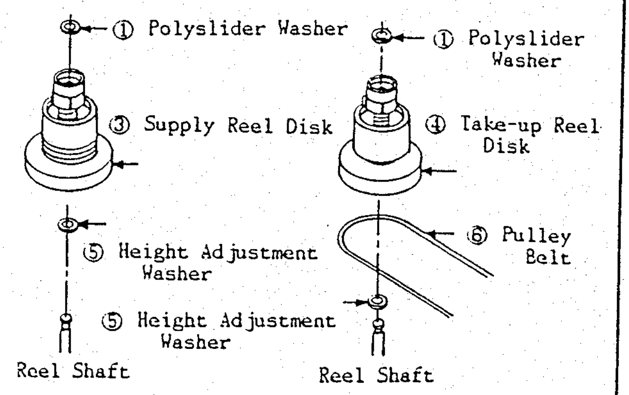


Fig. 1

● FIXING UP

(Supply Reel Disk.)

1. Clean reel disk shaft and put in height adjusting washer ⑤.
2. Attach new supply reel disk.
3. Make height adjustment of reel disk using master plane (JG022) and reel table height chip (JG024).
4. Pull out new supply reel disk. After oiling (Diamond Oil Hydrofluid No.56) on reel disk shaft, attach the new supply reel disk again.
5. Attach polyslider washer ①.
6. Attach tension band.
7. Set the Tension Arm Spring back in its place.

(Take-up Reel Disk)

1. Clean reel disk shaft and put in height adjusting washer ⑤.
2. Attach new take-up reel disk.
3. Make height adjustment of reel disk using master plane (JG022) and reel table height chip (JG024) .
4. Pull out new reel take-up disk. After oiling (Diamond Oil Hydrofluid No.56) on reel disk shaft, attach the new take-up reel support again.
5. Attach polyslider washer ①.
6. Attach counter belt ⑥.

● NOTE

1. Make height adjustment of reel disk after replacement.
2. Be careful not to deform tension band at the time of removal and attachment.
3. Be careful not to deform auxiliary brake lever.
4. Reel disk is designed to fit a nail on the reel unit slip plate. Turn the reel disk slightly with your finger and fix it.
5. Be careful not to scratch reel disk shaft by polyslider washer or tool at the time of removal and attachment.
6. After attachment, confirm V/S back tension in accordance with ■ A-7.
7. Refer to ■ A-2 for reel disk height adjustment.

■ A-2: HEIGHT CONFIRMATION AND ADJUSTMENT

● ADJUSTMENT

1. Set master plane (JG022) at mechanism framework, taking care not to scratch drum, as shown in Fig. 2-(a).
2. Confirm that the master plane (JG022) sits between A and B, as shown in Fig. 2-(b), using reel table height chip (JG024). In case it is beyond the range of set-up value, adjust it by height adjusting washer, making up-down play within 0.1 - 0.5 mm.

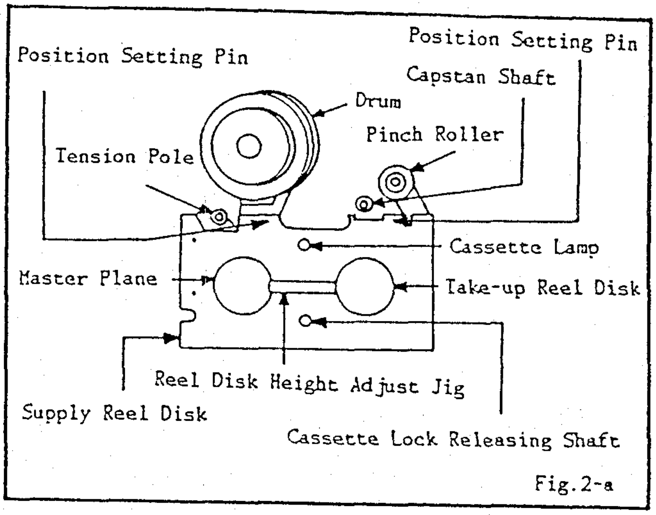

Position Setting Pin
Position Setting Pin
Capstan Shaft
Drum
Pinch Roller
Tension Pole
Cassette Lamp
Master Plane
Take-up Reel Disk
Reel Disk Height Adjust Jig
Supply Reel Disk
Cassette Lock Releasing Shaft

Fig.2-a

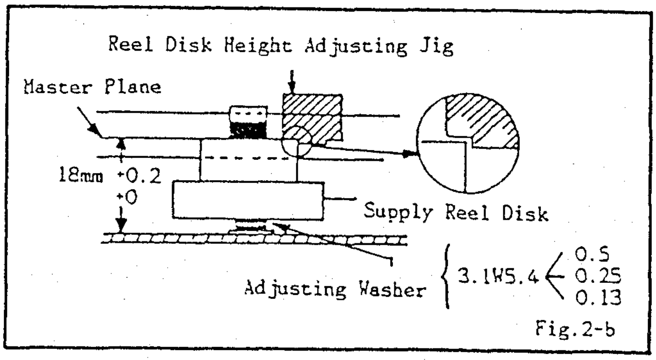

Reel Disk Height Adjusting Jig
Master Plane
18mm +0.2 +0
Supply Reel Disk
Adjusting Washer
3.1W5.4
0.5
0.25
0.13

Fig.2-b

■ A-3: FASTFORWARD AND ITS TAKE-UP TORQUE CONFIRMATION AND ADJUSTMENT

● CONFIRMATION

1. Set torque gauge (JG002D) on take-up reel disk, and place unit in fast forward mode.
2. Confirm that no slip occurs between reel idler and reel motor pulley or between take-up reel disk at more than 800g.cm torque.

● ADJUSTMENT

In case fast forward take-up torque does not go over set-up value, clean reel motor pulley, reel idler and take up reel disk by solution and check again.

● NOTE

1. Hold the torque gauge (JG002D) in place when you push Fast Forward Button and reel disk begins to turn, after setting torque gauge (JG002D) on the reel disk.
2. Carry out this confirmation and adjustment without using video cassette tape.

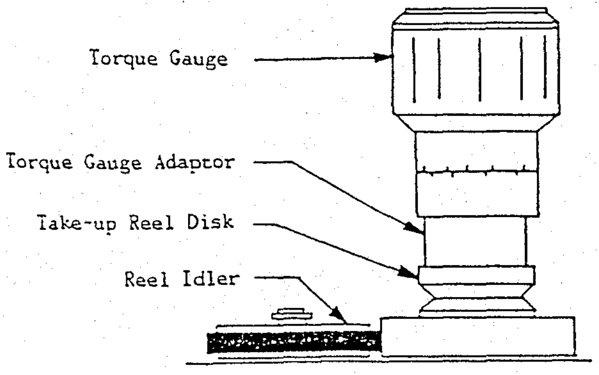

Torque Gauge
Torque Gauge Adaptor
Take-up Reel Disk
Reel Idler

Fig.3-a

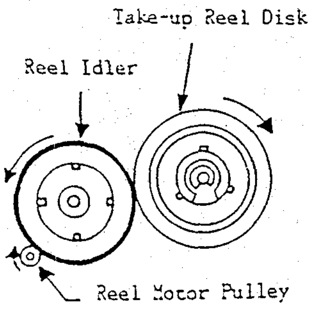

Take-up Reel Disk
Reel Idler
Reel Motor Pulley

Fig.3-b

▪ A-4: REWIND AND ITS TAKE UP TORQUE CONFIRMATION AND ADJUSTMENT

● CONFIRMATION

1. Set torque gauge (JG002D) on supply reel disk, and place unit in rewinding mode.
2. Confirm no slip occurs between reel idler, reel motor pulley or between supply reel disk at more than 800g/cm torque.

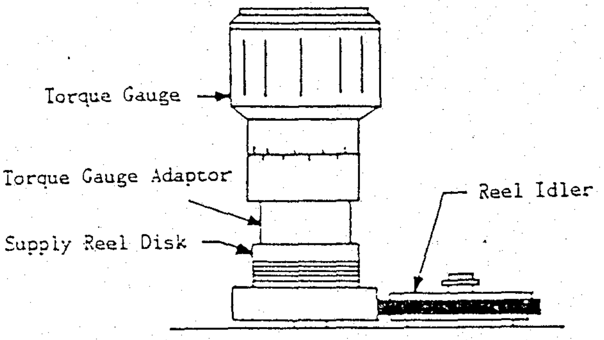

Torque Gauge
Torque Gauge Adaptor
Reel Idler
Supply Reel Disk

Fig.4-a

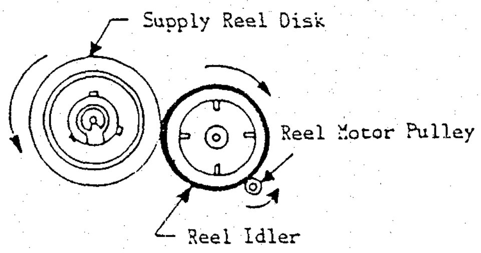

Supply Reel Disk
Reel Motor Pulley
Reel Idler

Fig.4-b

● ADJUSTMENT

In case rewind take-up torque does not go over set-up value, clean reel motor pulley, reel idler, supply reel disk by solution and check again.

● NOTE

1. Hold the torque gauge (JG002D) in place when you push Rewind Button, and reel disk begins to turn, after setting torque gauge (JG002D) on the reel disk.
2. Carry out this confirmation and adjustment without using video cassette tape.

▪ A-5: PLAY BACK TAKE-UP TORQUE CONFIRMATION AND ADJUSTMENT

● CONFIRMATION

Put torque gauge (JG027) into take-up reel disk and confirm torque is within set-up value (175g ±15).

SP MODE: 175 ± 15g/cm(VR1001)

● ADJUSTMENT

1. In case playback take-up torque is beyond the range of set-up value adjust take-up torque with the adjusting volume.
2. Rotate SP torque volume (VR2007) in SP recording mode to be beyond the range of set-up value for take-up torque.

● NOTE

1. Read center value in irregularity range as set-up value considerating that take-up torque changes because of irregularity of turning torque in motor.

▪ A-6: CONFIRMATION OF FAST FORWARD BACK TENSION

● CONFIRMATION

1. Set the unit in fast forward mode by pushing Fast Forward Button.
2. Put JG002E on supply reel disk and make slow right turn (one turn in a few seconds). And confirm torque is within set-up value (15g.cm - 35g.cm).

● NOTE

1. Put torque gauge JG002E on reel disk steadily and measure.

▪ A-7: CONFIRMATION OF REWIND AND V/S REWIND BACK TENSION

● CONFIRMATION

1. Set the unit in rewind mode by pushing Rewind Button.
2. Put JG002E on take-up reel disk and make slow left turn (one turn in a few seconds) and confirm torque is within set value (10 - 20 g.cm).

● NOTE

1. Put JG002E on reel disk steadily and measure.
2. Rewind back tension and back tension of V/S-REW are same.

▪ A-8: CONFIRMATION OF SEARCH CUE BACK TENSION

● CONFIRMATION

1. Set the unit in play mode by pushing Play Button.
2. Push seach Cue Button and the unit will be in seach cue mode. Confirm auxiliary brake is working on supply reel disk.
3. Put torque gauge JG002E on supply reel disk and make slow turn (one turn is a few seconds). Measure torque of this and confirm it satisfies set-up point (15 - 35 g.cm).

● NOTE

1. After positioning tension arm, conduct confirmation and adjustment of visual cue back tension.
2. Put torque gauge JG002E on reel disk steadily and measure.
   In case torque gauge is playing, correct measurement will not be done.
3. The back tension of visual cue must be in 15 - 35 g.cm.

▪ A-9, 10 NOT REQUIRED FOR THIS MODEL

▪ A-11: CONFIRMATION AND ADJUSTMENT OF CLEARANCE BETWEEN CAPSTAN SHAFT AND PINCH ROLLER

● CONFIRMATION

1. Set the unit in record mode by pushing Record Button.
2. Set the unit in pause mode by pushing Pause Button.
3. In this condition, check visually that the clearance between pinch roller and capstan shaft is within the set-up points (1.0 - 1.5 mm).

● ADJUSTMENT

1. In case the clearance between pinch roller and capstan shaft is out of the set-up points, loosen screw that is fixing the connect rods A and B to make adjustment.
2. After adjustment, paint or glue the screw.

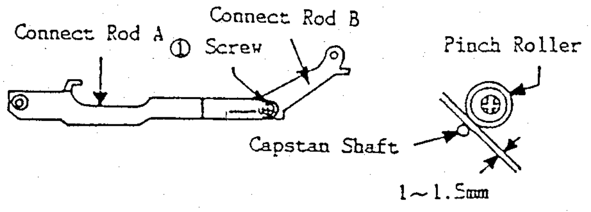


Fig.11

▪ A-12: CONFIRMATION AND ADJUSTMENT OF TENSIO POLE POSITION

● CONFIRMATION

1. Set the recorder in play mode by pushing Play Button.
2. As soon as guide rollers, L, R begin to draw tape from cassette, tension pole shall move to the left, thus loading will start. Confirm tension pole position at this stage.
3. When the tape (T-120) comes near the end, confirm by eye that the center of tension pole is positioned 4.0 - 4.5 mm to the left from center of P1 post.
4. Confirm that video tape is not curling at flange of P1 post or is not running on flanges.

● POSITIONING

1. In case tension pole is positioned to the left from center of S.I. Roller by less than 4.0mm, move tension band adjustment angle ① to direction of arrow B (Fig. 12-b), then screw ② shall be tightened.
2. In case tension pole is positioned on the left of center of P1 post. by more than 4.5mm, move tension band adjustment angle ① to direction of arrow A (Fig. 12-b), then screw ② shall be tightened.

● NOTE

1. After completion of positioning, do not forget to fix the position with paint.
2. Do not screw too tight, so that screw thread may not be damaged.

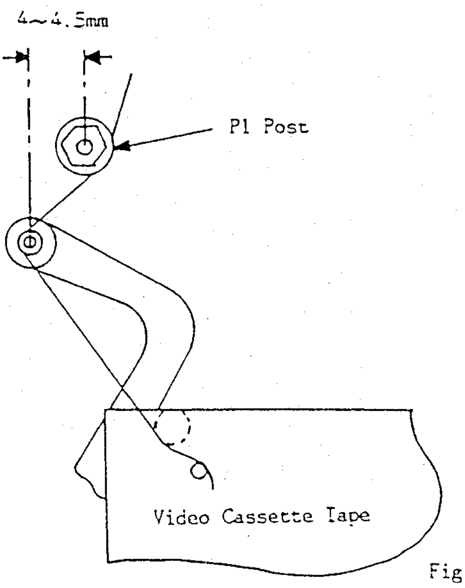


Fig.12-a

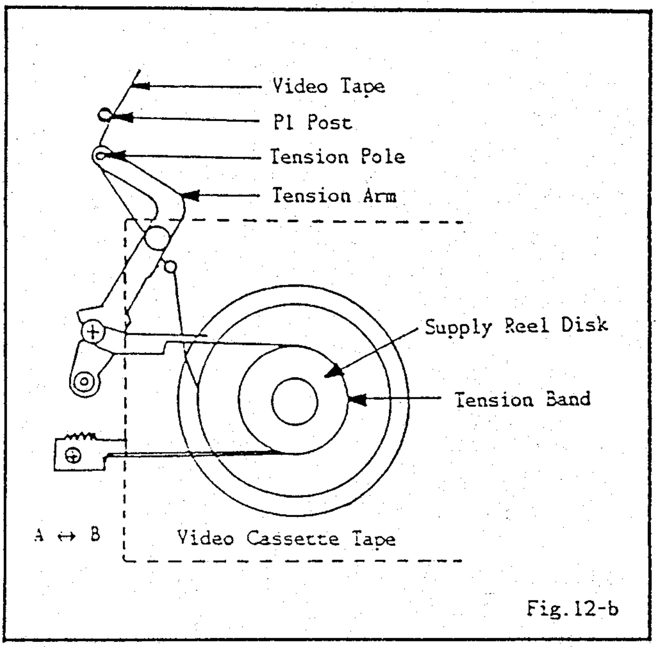

Video Tape
P1 Post
Tension Pole
Tension Arm
Supply Reel Disk
Tension Band
A ↔ B
Video Cassette Tape

Fig. 12-b

■ A-13: CONFIRMATION AND ADJUSTMENT TO ENSURE THAT TENSION POLE IS VERTICAL

● CONFIRMATION

1. Set fixed SI roller height chip (JG029B) as per Fig. 13.
2. In this condition, confirm that tension pole is vertical.

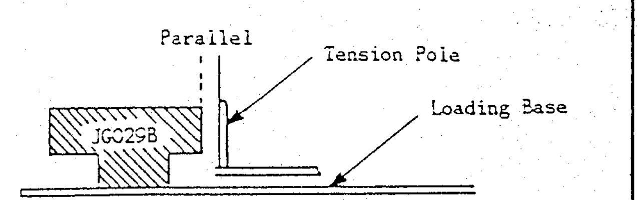

Parallel
Tension Pole
Loading Base
JG029B

Fig. 13

■ A-14: CONFIRMATION AND ADJUSTMENT OF BACK TENSION OF RECORDING AND PLAYBACK

● CONFIRMATION

○ When you use back tension measuring cassette.

1. Set the measuring cassette tape.
2. Set the unit in recording mode. At this time, confirm, by pointer of the measuring cassette tape, that back tension is within set points (30 - 50g.cm).
3. Confirm video tape is tightly ronning on fixed guide.
4. At beginning and ending of tape, confirm there is no sag nor damage on edge of tape.

○ When you use tentelometer.

1. Set T-120 cassette tape to the begining.
2. Set the unit in recording mode.
3. Pull Impedance roller toward arrow A as in Fig. 14-a and set tentelometer as in Fig. 14-a, 14-b confirming tape tension is within set-up points (23 - 28g).
4. Confirm video tape is running tight on P1 post.
5. Confirm there is no sag nor damage on edge of tape both in beginning and ending of tape.

● ADJUSTMENT

1. In case tape tension is weaker than 23 g.cm, adjust tension plate on arrow A side of Fig. 14-C and reconfirm the tension.
2. In case tape tension is stronger than 28 g.cm, adjust tension plate on arrow B side of Fig. 14-C and reconfirm the tension. (Used adjust screw driver, JG0#")

● NOTE

1. The tentelometer should not touch F.E. Head, drum or other component where tape may go over it.
2. When you use the back tension measuring cassette, it is recommended to use tentelometer, too, for proof reading.
3. Use paint lock after adjustment.
4. Do not screw too tight, otherwise the ridges will be broken.

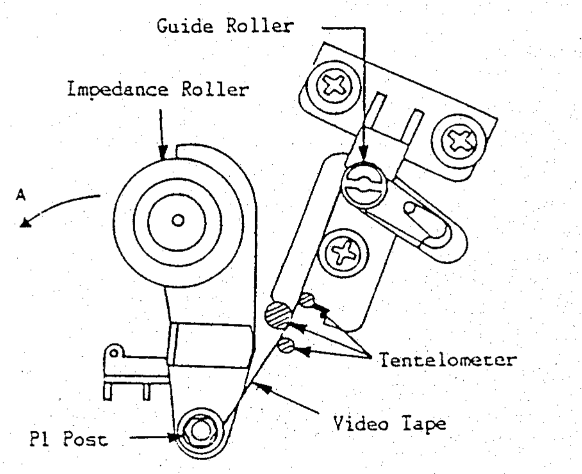

Guide Roller
Impedance Roller
A
Tentelometer
Video Tape
P1 Post

Fig. 14-a

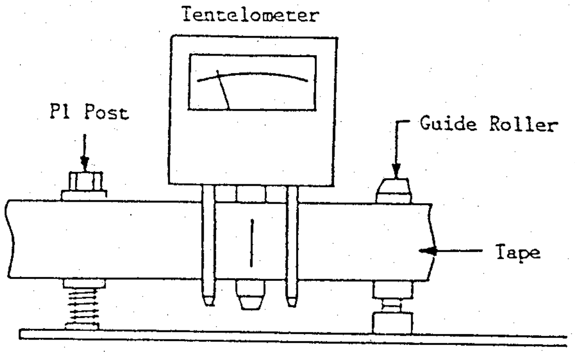

Tentelometer
P1 Post
Guide Roller
Tape

Fig.14-b

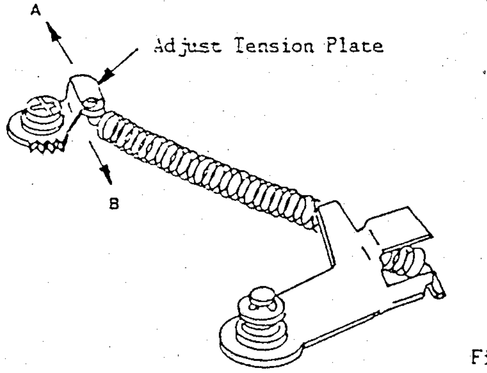

A
Adjust Tension Plate
B

Fig.14-c

■ A-15: CONFIRMATION OF REEL BRAKE TORQUE

■ A-15-1: Confirmation of medium brake on supply and take-up side.

● CONFIRMATION

1. Unplug from power source and connect 27 ohm resistor between ⑦ pin of CP1010 on syscon PCB and ground.
2. Release reel idler away from supply reel disk and set torque gauge (JG002F). Refer to Fig. 15-a.
3. Plug into power source.
4. Turn torque gauge slowly (one turn in a few seconds) and confirm that medium brake torque is more than 100g.cm.
5. In case take-up reel brake is measured, connect 27 ohm resistor between ② pin of CP1010 on syscon PCB and ground and set gauge in take-up reel. Refer to Fig. 15-b.

● NOTE

1. Measure within ten seconds after plugging into power source cord, and disconnect where terminated after measurement.
2. Confirmation of medium brake torque should be done in both clockwise and counter-clockwise directions.
3. Set point of medium brake torque should be more than 100g.cm and less than half of strong brake torque on.

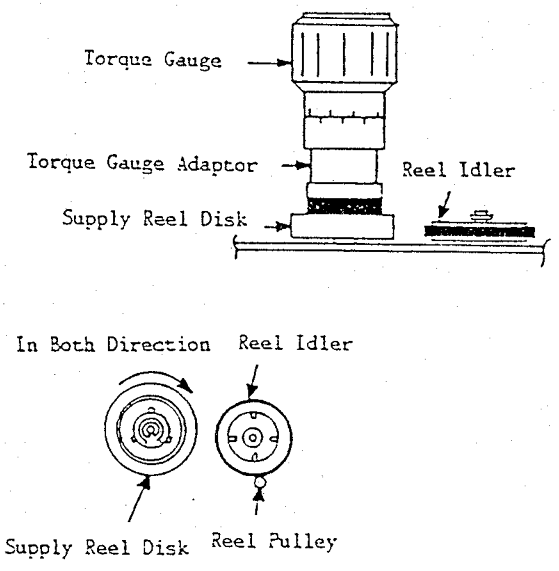

Torque Gauge
Torque Gauge Adaptor
Reel Idler
Supply Reel Disk
In Both Direction
Reel Idler
Supply Reel Disk
Reel Pulley

Fig.15-a

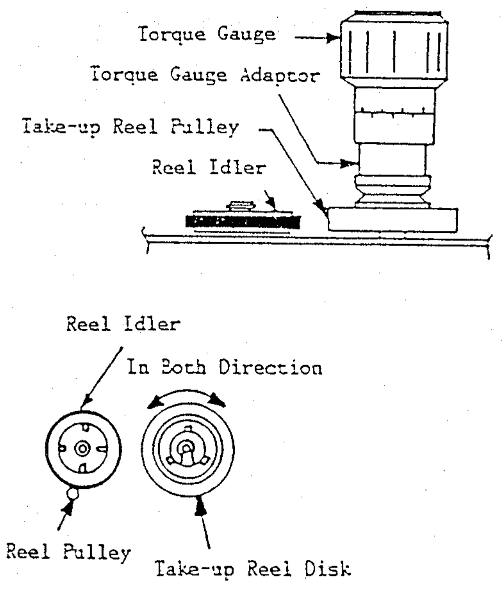

Torque Gauge
Torque Gauge Adaptor
Take-up Reel Pulley
Reel Idler
Reel Idler
In Both Direction
Reel Pulley
Take-up Reel Disk

Fig.15-b

■ A-15-2: Confirmation of strong brake torque on supply and take-up side.

● CONFIRMATION

1. Unplug from power source and connect jumper wire between ⑦ pin of CP1010 on syscon PCB and ground.
2. Release reel idler away from supply (Fig. 15-c) or take-up (Fig. 15-d) reel disk and set torque gauge (JG002F).
3. Plug in power source cord.
4. Turn torque gauge slowly (one turn in a few seconds) clockwise and confirm strong brake torque is more than 300 g.cm and more than twice of medium brake torque.
5. In case take-up reel strong brake is measured, connect jumper wire between ② pin of CP1010 on syscon PCB and ground. Refer to Fig. 15-d.

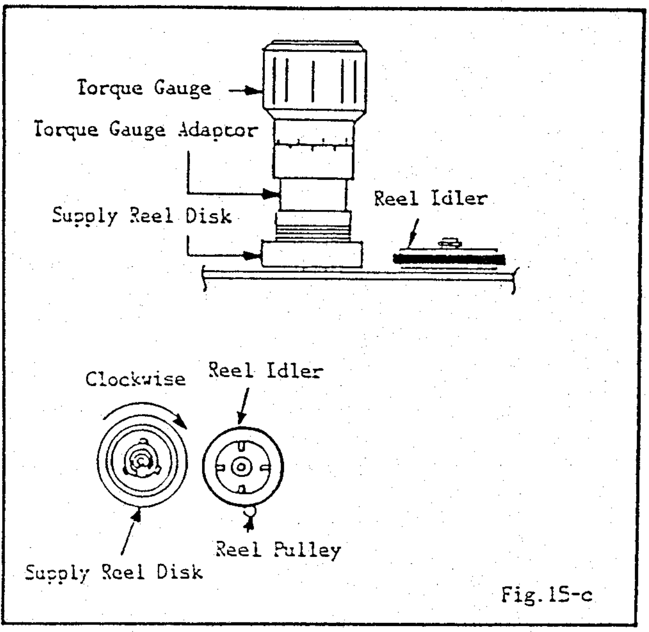

Torque Gauge
Torque Gauge Adaptor
Supply Reel Disk
Reel Idler
Clockwise
Reel Idler
Reel Pulley
Supply Reel Disk

Fig. 15-c

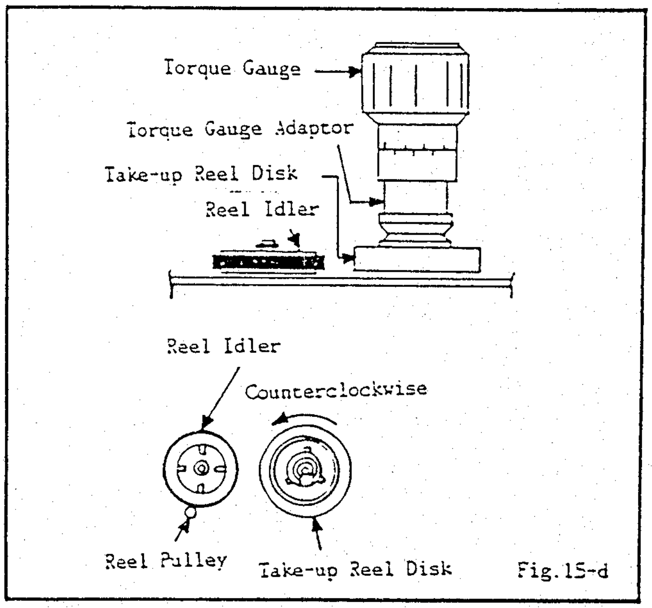

Torque Gauge
Torque Gauge Adaptor
Take-up Reel Disk
Reel Idler
Reel Idler
Counterclockwise
Reel Pulley
Take-up Reel Disk

Fig. 15-d

● NOTE

1. Measure within ten seconds after switching on main power and disconnect where shorted after measurement.
2. Carry out measurement of strong brake torque after that of medium brake torque.

■ A-16: HEIGHT CONFIRMATION AND ADJUSTMENT OF P1 POST AND GUIDE POST

● CONFIRMATION

Confirm that when tape is running there is no crease or bend on tape edge at the places shown in Fig. 16-a.

● ADJUSTMENT

1. Set height adjustment chip (JG029B) on loading base as per Fig. 16-b.
2. Turn slowly and guide post the adjusting nuts on top of P1 post by box driver (5.5) respectively, adjusting to the set-up points (e1=13.68 + 0.1 - 0, e2=26.35 + 0.1 - 0).

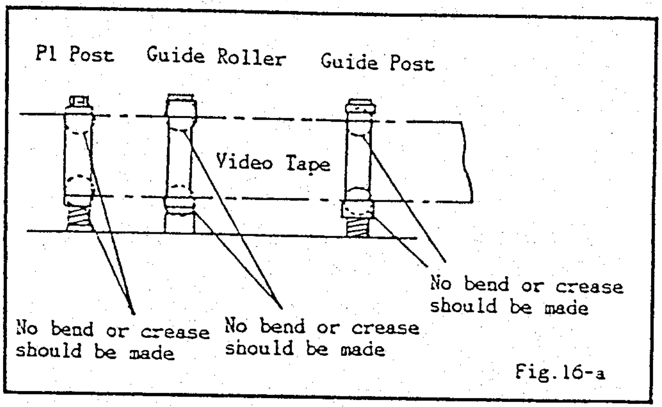

P1 Post
Guide Roller
Guide Post
Video Tape
No bend or crease should be made
No bend or crease should be made
No bend or crease should be made

Fig. 16-a

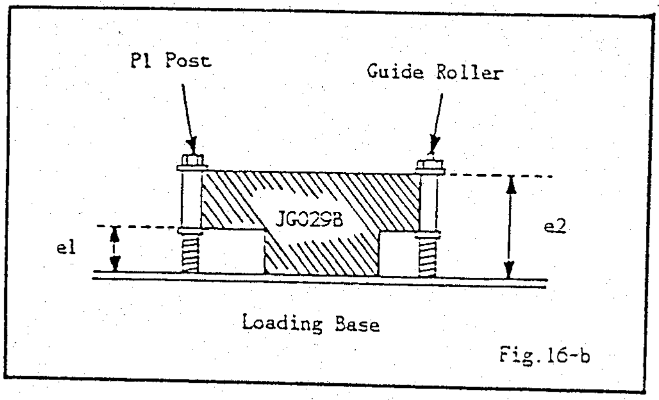

P1 Post
Guide Roller
JG029B
e1
e2
Loading Base

Fig. 16-b

● NOTE

1. The follwing adjustment must be carried out only when height is not correct.
2. After adjustment, check it with video tape running condition.
3. After completion of adjustment, carry out tape running adjustment.
   After adjusting guide roller (L, R), check as shown in Fig. 16-a.
4. Do not move nut by any means after completion of adjustment.
5. After completing adjustment, always fix P1 post by paint lock (red) and guide roller by screw lock.

■ A-17: REPLACEMENT OF A/C HEAD

● REPLACEMENT

1. Remove solders of lead wires placed on A/C Head P.C.Board, and take lead wires away from P.C.Board.
2. Loosen set screw ③ using JG008C. (Fig. 17-a)
3. Remove screw ④ using plus (+) driver.
4. Remove A/C Head screw ⑥ using plus (+) driver. Carefully do this, because there is spring between plate and A/C Head screw.

● NOTE

1. After completion of replacement, do not fail to carry out tape running adjustment. Do not touch head by any means when replacing A/C Head. (Fig. 17-b)

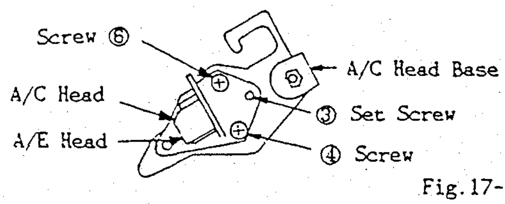


Fig.17-a

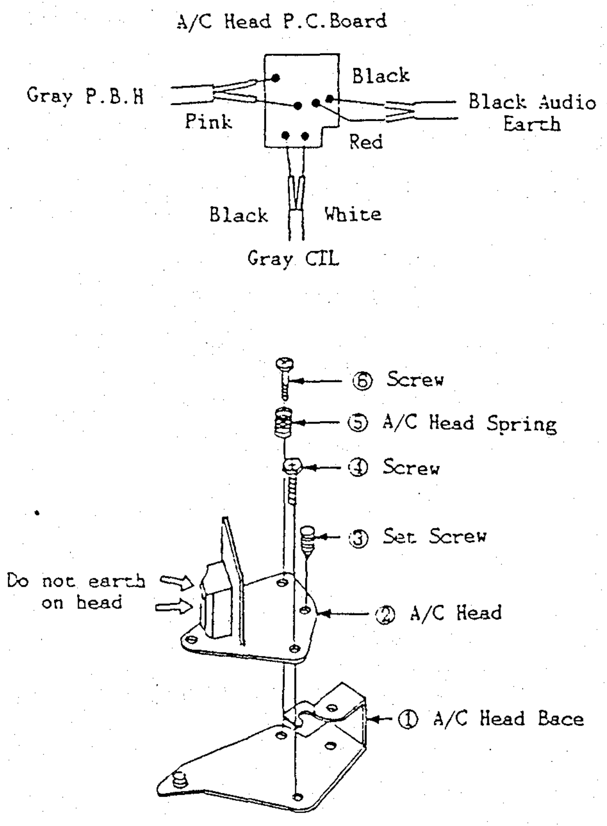


Fig.17-b

■A-18: CONFIRMATION AND ADJUSTMENT OF A/C HEAD HEIGHT AND TILT

● CONFIRMATION

1. Set the unit in play mode using a T-120 tape.
2. Confirm that tape is not curling on flange of guide post.
3. Confirm that height and tilt of A/C Head against tape are as per Fig. 18.

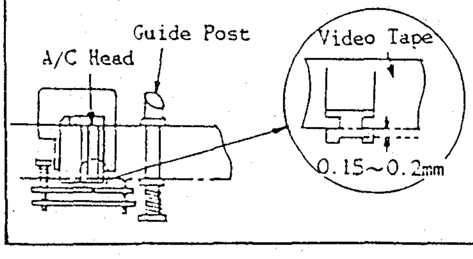


Fig.18

● ADJUSTMENT

In case tape is running abnormally, make the following adjustments (Fig. 17-a and 18).

1. Check tape running condition with the unit in play mode using the T-120 tape.
2. Confirm tape runs smoothly without any crease or bend between guidepost and guide roller R.
3. It is absolutely impossible to get satisfactory sound in case tape is distorted between A/C Head and guide post. So confirm tape is not running on flange of guide post and there is not a slightest crease on tape.
4. In case tape is not in good condition, adjust it by ③. Turn ③ little by little.
   NOTE: Do not move guide post.
5. Height of A/C Head against tape should be as per Fig. 18.

If tape runs smoothly around A/C Head and rough adjustment of height is done, carry out height and azimuth adjustment of A/C Head using linear tape (JG001).

1. Play back audio 6KHz (picture is color bar) linear tape (JG001) and observe the waveform at Audio output terminal with oscilloscope.
2. Turn set screw ④ little by little, making the level to be maximum.
   When the level becomes maximum, set screws where level variation is the smallest.
   (Fig. 17-a)
3. Re-check tape running adjustment. (■A-19)

■A-19: TAPE RUNNING ADJUSTMENT

● ADJUSTMENT

1. Carry out reel disk height adjustment using master plane (JG022) and reel table height chip JG024.
2. Carry out height confirmation and adjustment of P1 post and guide post using fixed jig (JG029B) in accordance with paragraph ■A-16.
3. In accordance with ■A-12 and ■A-13, carry out positioning and confirm that the tension pole is vertical with the tension pole positioning jig (JG029B).
4. Playback the rough adjustment tape and make rough adjustment of guide roller height with the tool (JG021) according to ■A-21 and then, match lower edge of tape to drum lead and further, make sure that video tape does not curl on flange of the guide post.
5. In accordance with ■A-21, play the linear tape and adjusting guide roller height so that envelope becomes flat and that flatness will not be affected even tracking control knob is turned, and at the same time, adjust REC shifter in ■E-5 to 6.5H±1H.
6. In accordance with ■A-18, adjust A/C Head height, tilt and azimuth.
7. Position tracking control knob at preset and turn adjust nut X a little as in Fig. 17-a so that envelope becomes maximum.
   Adjust position of A/C Head.
8. Carry out confirmation of flatness of envelope and voice by self recording . The test signal is necessary as output signal in working that.
9. After completion of adjustment, fix each adjustment screw and nuts etc. with paint.

■ A-20: REPLACEMENT OF UPPER DRUM

● REPLACEMENT

1. Remove two fixing screws ⑦ using plus (+) driver.
2. Remove V Head lead wires press plate ⑧.
3. Disconnect lead wires ① (four, yellow).
4. Disconnect lead wire ②, ⑤ (two, red).
5. Disconnect lead wire ③, ④ (two, brown).
6. Remove two fixing screws with flat washers ⑥ using plus (+) driver.
7. Pull out upper drum in such a way that it will not incline upward and carefully replace in order not to scratch disk.

● FIXING UP

1. Set up new drum as per Fig. 20 and correctly place each lead wire.
2. Fix upper drum by two fixing screws ⑥.
3. Solder lead wires ①, ②, ③, ④ and ⑤ to thier respective positions.
4. Fix Video Head lead wire press plate ⑧ by fixing screws ⑦, screwing should be done slowly.

● NOTE

1. Fitting clearance between disk outer diameter and drum inner diameter is made in micron order. Scratch or dust can make them hard to fit or to separate them.
   As they can affect badly to the fitness of the drum and disk, pay at tension when you replace them.
2. Do not touch ---------on drum surface directly.
3. Do not apply driver to screw strongly.
4. Unless you have the tool (JG031), you can use gloves.
5. Connect to yellow, brown lead (CH-1) and red, yellow lead (CH-2).
6. Before fixing, confirm that there is no scratch or dust on disk front and surface.
7. Before fixing, confirm that there is no scratch or dust on inside of upper drum and surface.
8. When fixing, put upper drum slowly and carefully so that it will not incline to disk.
9. When setting, take care not to let any dust or dirt go into the clearance between disk and upper drum.
10. Apply driver to screw slowly and carefully screw it.
11. After completion of replacement, do not forget to carry out tape running adjustment and do the following electrical adjustment and confirmations.

    a. ■ E-4 P.G. Shifter Adjustment
    b. ■ E-5 REC Shifter Adjustment
    c. ■ E-6 Tracking Fix Adjustment
    d. ■ E-18 Playback Level Adjustment
    e. ■ A-21 Guide Roller Adjustment

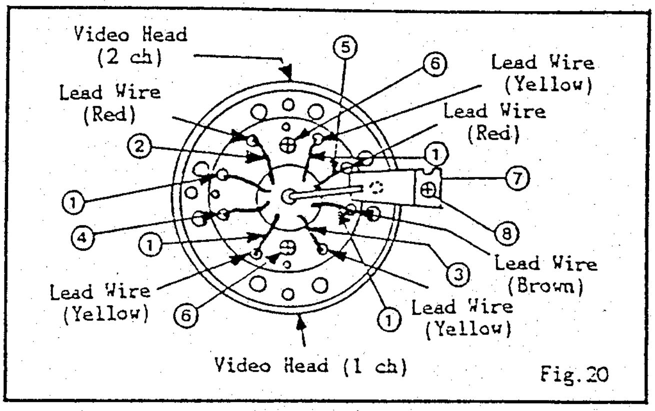


Fig.20

■ A-21: ADJUSTMENT OF GUIDE ROLLER

● ADJUSTMENT

1. Insert linear tape into stage.
2. Switch on main power and then connect monitor output cord and video input cord to proper positions each.
3. Connect CH-1 and CH-2 of oscilloscope to envelope output and to test point of switching pulse, respectively.
4. Carry out this adjustment in play back mode.
5. Trigger with SW pulse and observe envelope (Fig. 21-a).
6. Observe the envelope, adjust guide roller height and let tape run on drum head.
   If video tape is running above or below helical lead position, waveform shall appear as in Fig. 21-b and 21-c.

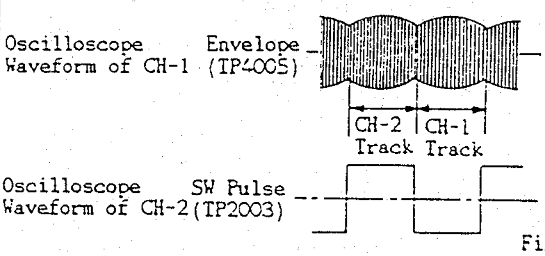


Fig.21-a

a: Envelope waveform when video tape is above helical guide.

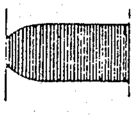
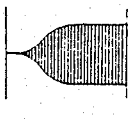
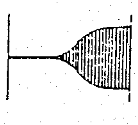
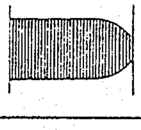
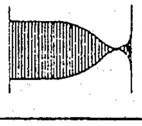
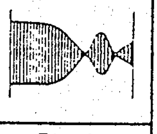
Float	Little	Medium	Too Much
Supply Side (Drum Beginning)			
Take-up Side (Drum Ending)			

Fig.21-b

b: When video tape is too much down the helical guide.

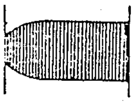
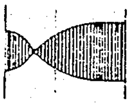
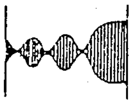
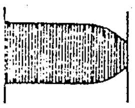
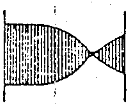
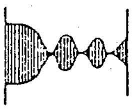
Shift	Little	Medium	Too Much
Supply Side (Drum Begining)			
Take-up Side (Drum Ending)			

Fig.21-c

7. Adjust guide roller height while observing the envelope, and make envelope flat. Adjust the envelope so that the flatness will not be affected even tracking control knob is turned.
8. When tracking control knob is turned, adjust envelope so that its A:B ratio is better than 10:7 at where waveform starts to reduce at A. (Fig. 21-d)
9. Make adjustment of ∎E-4 P.G. shifter point as per play SW point of electrical adjustment.
10. Record color bar and play back, to confirm envelope is flat.
11. After that, carry out confirmation of envelope.

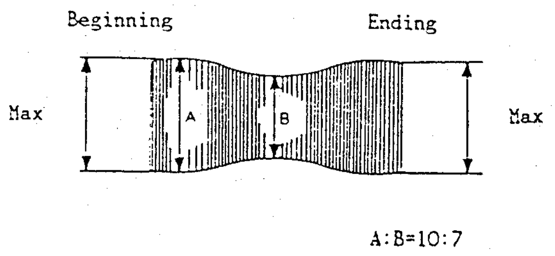


Fig.21-d

● NOTE

In case the guide roller has been adjusted, work ●ADJUSTMENT in ∎A-18 again.

∎A-22: REPLACEMENT OF REEL MOTOR

● REMOVAL

1. Disconnect the lead wire for the Reel Motor from it.
2. Remove the attachment screw ⑧ for the Reel Motor.

● FIXING UP

1. Fix up reel motor according to the opposite routine to ●REMOVAL.

● NOTE

1. Make sure to attach lead wires on reel motor terminal to correct poles each other in case reel motor is soldered.
2. Clean the reel idler after fixing up reel motor.
3. Work ●CONFIRMATION and ●ADJUSTMENT in ∎A-3, 4 and 5 after fixing up reel motor.

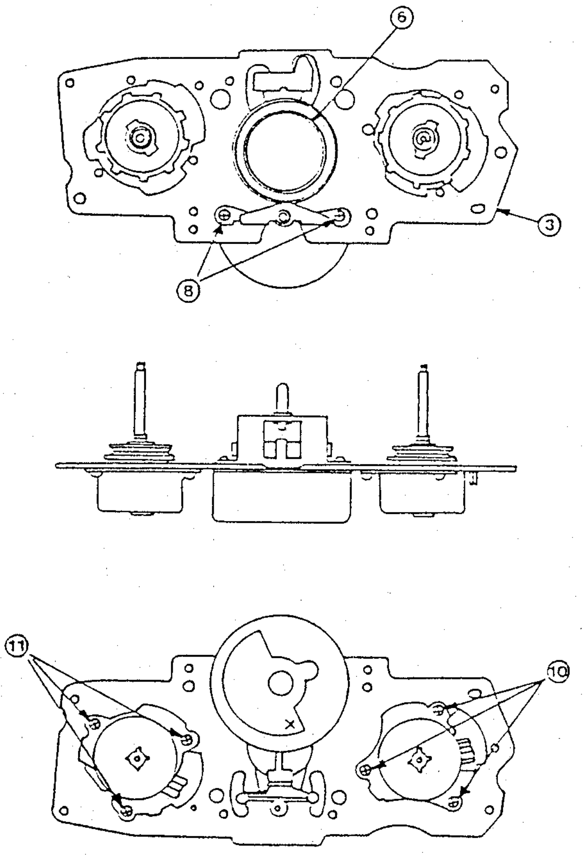


Fig.22

∎A-23: REPLACEMENT OF REEL IDLER

● REMOVAL

1. Work item 2 of ●REMOVAL in ∎A-22.
2. For removal of reel idler, move the reel idler to center of reel chassis, draw it toward you and then draw it up.

● FIXING UP

1. Hook reel idler spring correctly up reel idler and set reel idler in reel chassis and then, fix up reel idler according to the opposite routine to ●REMOVAL.

● NOTE

1. Make sure not to change the shape of reel idler spring change.
2. Make sure not to cut lead wire at reel motor.

■A-24: REPLACEMENT OF REEL BRAKE UNIT

● REMOVAL

1. Remove take-up and supply reel disks according to routine of ●REMOVAL in ■A-1.
2. Remove reel PCB from reel brake unit and then take off solder bridge on reel brake.
3. Remove attachment screws ⑩ to reel brake unit. Refer to Fig. 22.
4. Remove GEAR B.
5. Remove attachment screws ⑪ to reel brake unit.

● FIXING UP

1. Fix up reel brake unit for replacement according to the opposite routine to ●REMOVAL.

● NOTE

1. Work ●CONFIRMATION and ●ADJUSTMENT in ■A-1, 3, 4, 5 and 15 after replacement of reel brake units.

■A-25: REPLACEMENT OF CAPSTAN MOTOR ASSEMBLY

● REMOVAL

1. Remove capstan belt.
2. Disconnect the lead wires of motor.
3. Remove two pieces of screws from capstan motor assembly.

● FIXING UP

1. Fix up capstan motor according to the opposite routain to ●REMOVAL.
2. After cleaning capstan belt, capstan pulley and capstan flywheel, hang capstan belt.

● NOTE

1. Refer to Fig. 25 for position and wiring to fix up capstan motor Ass'y.
2. Clean the capstan belt, capstan motor pulley, flywheel and around the capstan after fixing up capstan motor Ass'y.
3. Work the electric adjustment, capstan free-run ■E3 after replacement of capstan motor Ass'y.

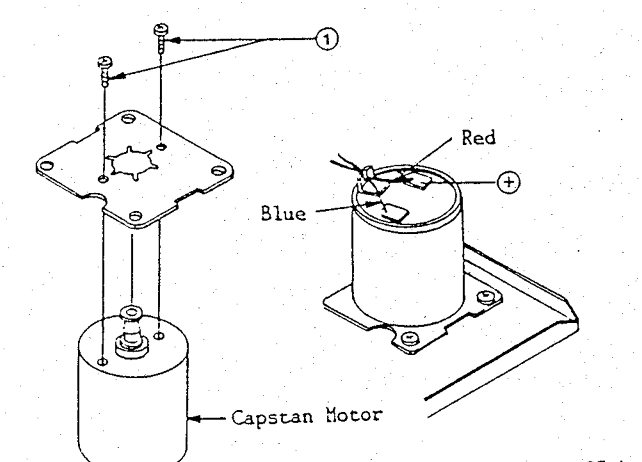


Fig.25-a

Fig.25-b

■A-26: REPLACEMENT OF CYLINDER UNIT

● REMOVAL

1. Remove video head shield plate on video P.C.B., and disconnect video head lead connector.
2. Disconnect connectors on cylinder P.C.B.
3. Remove heater lead wires of cylinder from terminal P.C.B.
4. Remove the cylinder unit by loosening the screws ①, ②.

● FIXING UP

1. Carry out the above in the reverse order to fix the unit.

● NOTE

1. Do not touch cylinder head surface.
2. Work ●CONFIRMATION in ■A-20 again.

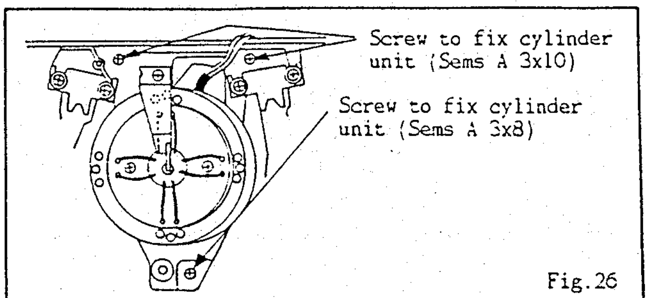

Screw to fix cylinder unit (Sems A 3x10)
Screw to fix cylinder unit (Sems A 3x8)

Fig.26

■A-27: REPLACEMENT OF TENSION BAND

● REMOVAL

1. Loosen the tension band fixing screws ①, ②.
2. Take brake arm spring ③ off the tension band metal.

● FIXING UP

1. The installation shall be done in reverse order.

● NOTE

1. Work ●ADJUSTMENT in ■A-12 after fixing up the tension band.

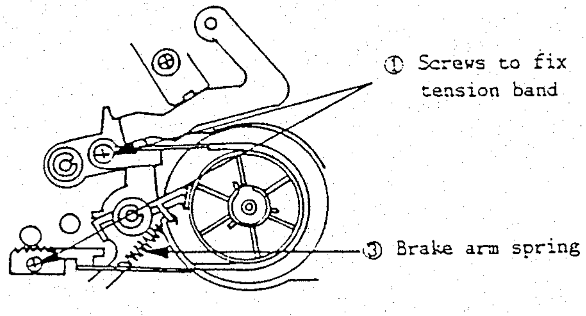


Fig.27

▪ A-28: REPLACEMENT OF SENSOR LAMP

● REMOVAL

1. Remove reel sensor holder from loading base ①.
2. Remove sensor lamp from PCB.

● FIXING UP

1. Installation should be done in the reverse order.

● NOTE

1. Make sure to connect sensor lamp to proper poles each in fixing up.

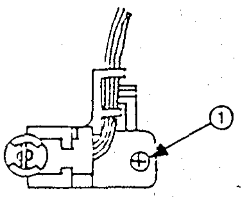


Fig. 28

▪ A-29: REPLACEMENT OF FLYWHEEL CAPSTAN

● REMOVAL

1. Loosen flywheel holder screw ③.
2. Remove flywheel holder ④.
3. Remove capstan belt ① from flywheel side.
4. Take out flywheel.

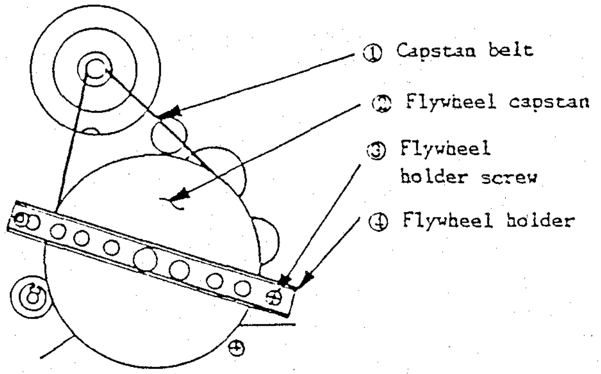

① Capstan belt
② Flywheel capstan
③ Flywheel holder screw
④ Flywheel holder

Fig. 29-a

● FIXING UP

1. Pour Maruzen Swa fluid No.100 oil into a container which bottom is flat, and which is made of glass or polyethylene, about 3mm from bottom.
   Dip the tip of capstan shaft about 3mm.
   Refer to Fig. 29-b.
2. Put a polyslider washer (ϕ3.6 x 7 x 0.5t) through the capstan shaft.
3. Insert capstan shaft into metal.
4. To install it, follow the steps mentioned above in the reverse order.
5. After 4, turn the deck to front and wipe the excessive oil on capstan shaft.
   Two thirds of the shaft from tip should be wiped with tissue for industrial use soaked in ethylene alcohol.
6. Let oil (Swa fluid #100) soak in oil stuck cushion ② and then place it through capstan shaft.
7. Cleanse oil seal with ethylene alcohol and after doing so, insert it through the capstan shaft.

● NOTE

1. Take out the flywheel carefully so that the metal will not be scratched and dust will not stick to it.
2. An oil seal is put in through capstan shaft be careful not to loosen it.
3. After replacement of flywheel, check wow.

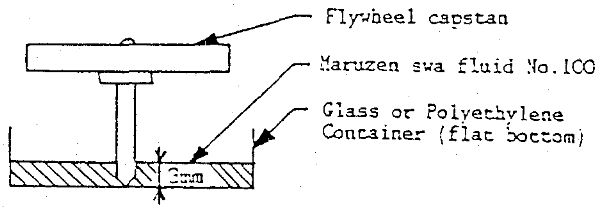

Flywheel capstan
Maruzen swa fluid No.100
Glass or Polyethylene Container (flat bottom)
3mm

Fig. 29-b

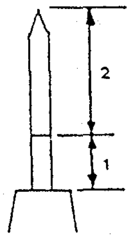


Fig. 29-c

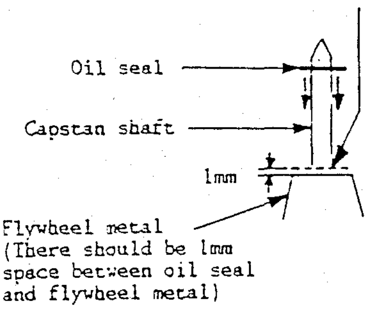

Oil seal
Capstan shaft
1mm
Flywheel metal
(There should be 1mm space between oil seal and flywheel metal)

Fig. 29-d

■ A-30: CAPSTAN BELT REPLACEMENT

● REMOVAL

1. Loosen flywheel holder screws ①.
2. Bring the flywheel holder to its preliminary position.
3. Take the belt from the flywheel side when you replace it.

● FIXING UP

1. When hanging the belt, the mark should come first against the direction of the movement of flywheel.
2. After the hanging is done, apply paint on flywheel holder screws.

● NOTE

1. After replacement of the belt, check wow and speed.

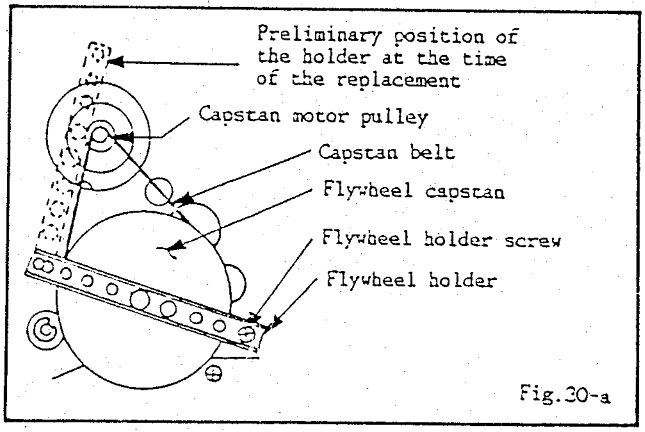

Preliminary position of the holder at the time of the replacement
Capstan motor pulley
Capstan belt
Flywheel capstan
Flywheel holder screw
Flywheel holder

Fig.30-a

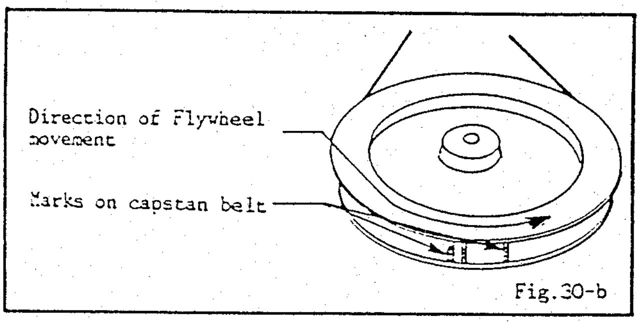

Direction of Flywheel movement
Marks on capstan belt

Fig.30-b

■ A-31: REPLACEMENT OF LOADING MOTOR

● REMOVAL

1. Disconnect loading motor leads. (+ Brown, - Black)
2. Loosen loading motor bracket fixing screw ②.
3. Remove motor fixing screw ③.
4. Remove warm gear which has been forced to place through motor shaft.

● FIXING UP

Installation should be done in the reverse order.

● NOTE

1. Make sure to attach loading motor leads to correct poles each other.

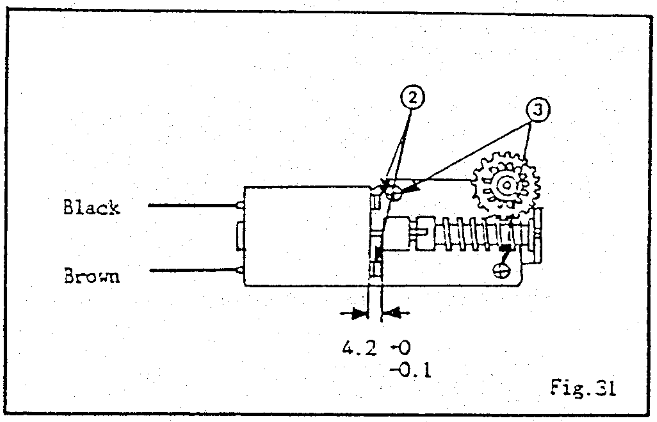

②
③
Black
Brown
4.2 -0 -0.1

Fig.31

■ A-32 NOT REQUIRED FOR THIS MODEL

▪ A-33: REPLACEMENT OF CAM GEAR AND FAN SHAPED GEAR

● REMOVAL

1. Remove loading gear plate screw ① to remove gear plate.
2. Pull out fan shaped gear.
3. Pull out cam gear.

● FIXING UP

1. Installation should be done in the reverse order.

● NOTE

1. Molykote grease is applied on edge, ditch and shaft of cam gear.
   So after the replacement, apply the grease at these places.
2. At the time of replacement, be careful that the point hole of cam gear may come on the set line shown in Fig. 33-b.
3. Cam gear has front and back, so be careful.
4. Installation of fan shaped gear should be done in a manner that the point of the gear may match with loading gear (L) when it is turned in connection with loading gear (R) which should be turned in the counter-clockwise direction (arrow in Fig. 33-d.)

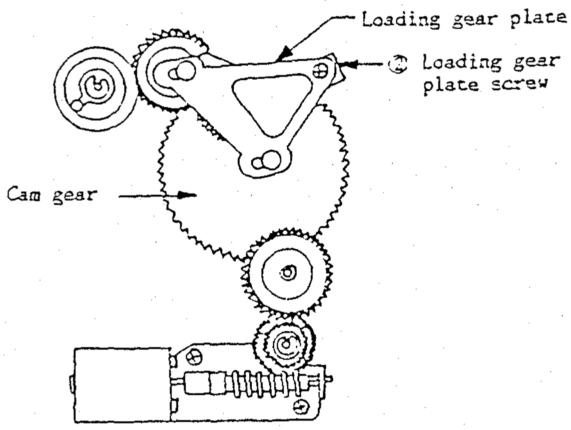

Loading gear plate
① Loading gear plate screw
Cam gear

Fig.33-a

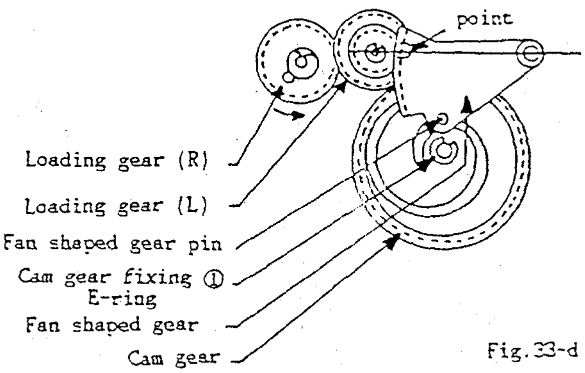

point
Loading gear (R)
Loading gear (L)
Fan shaped gear pin
Cam gear fixing ① E-ring
Fan shaped gear
Cam gear

Fig.33-d

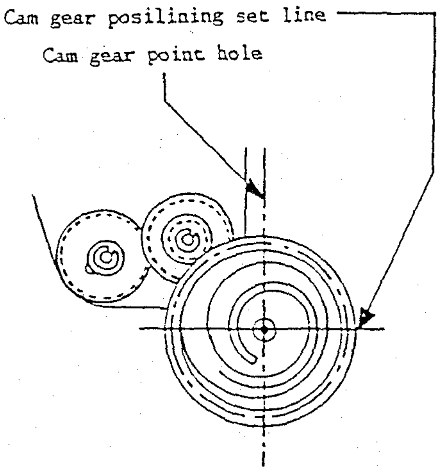

Cam gear posilining set line
Cam gear point hole

Fig.33-b

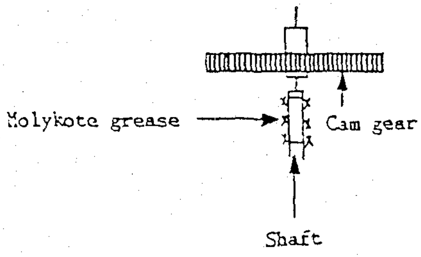
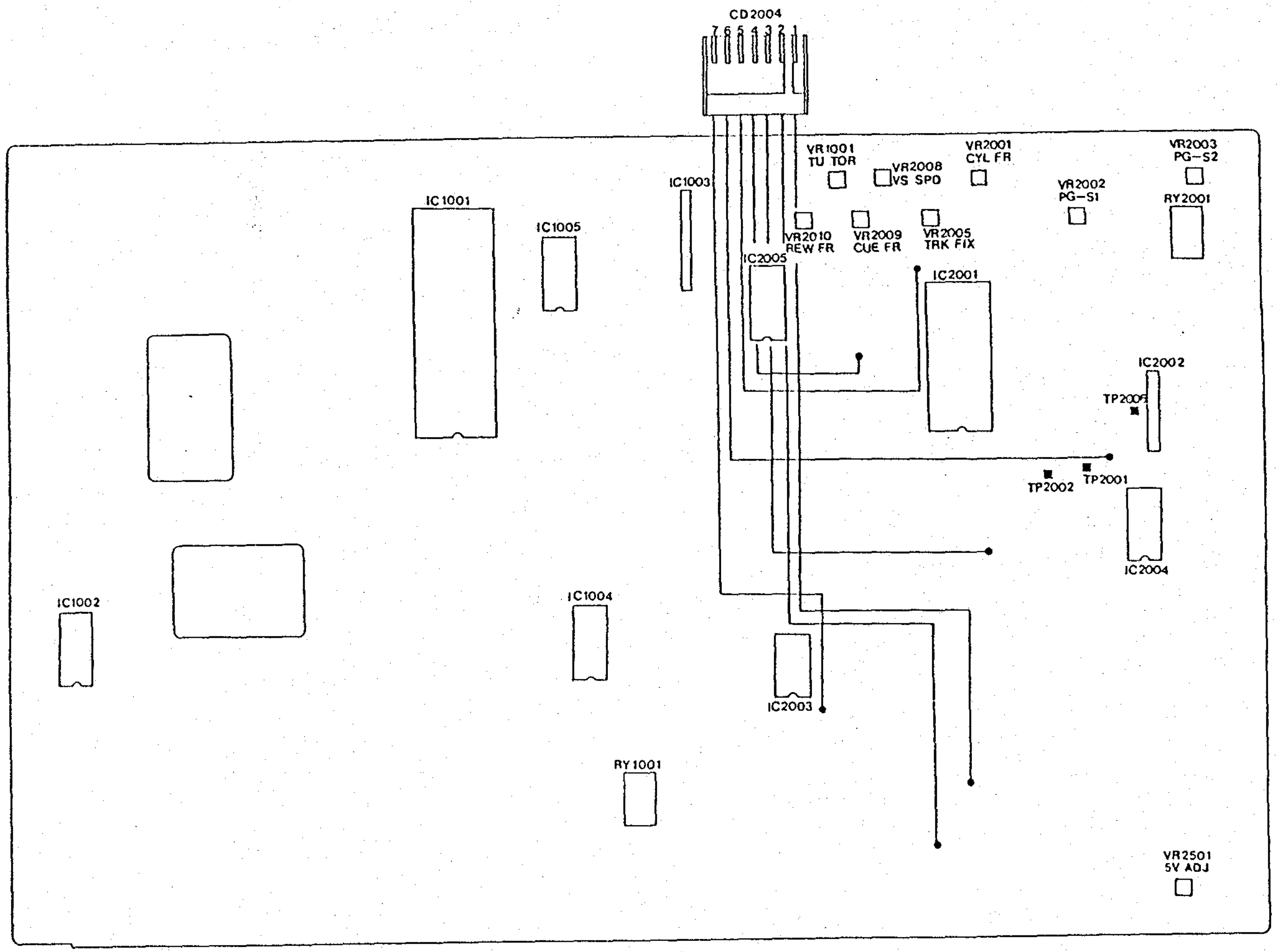
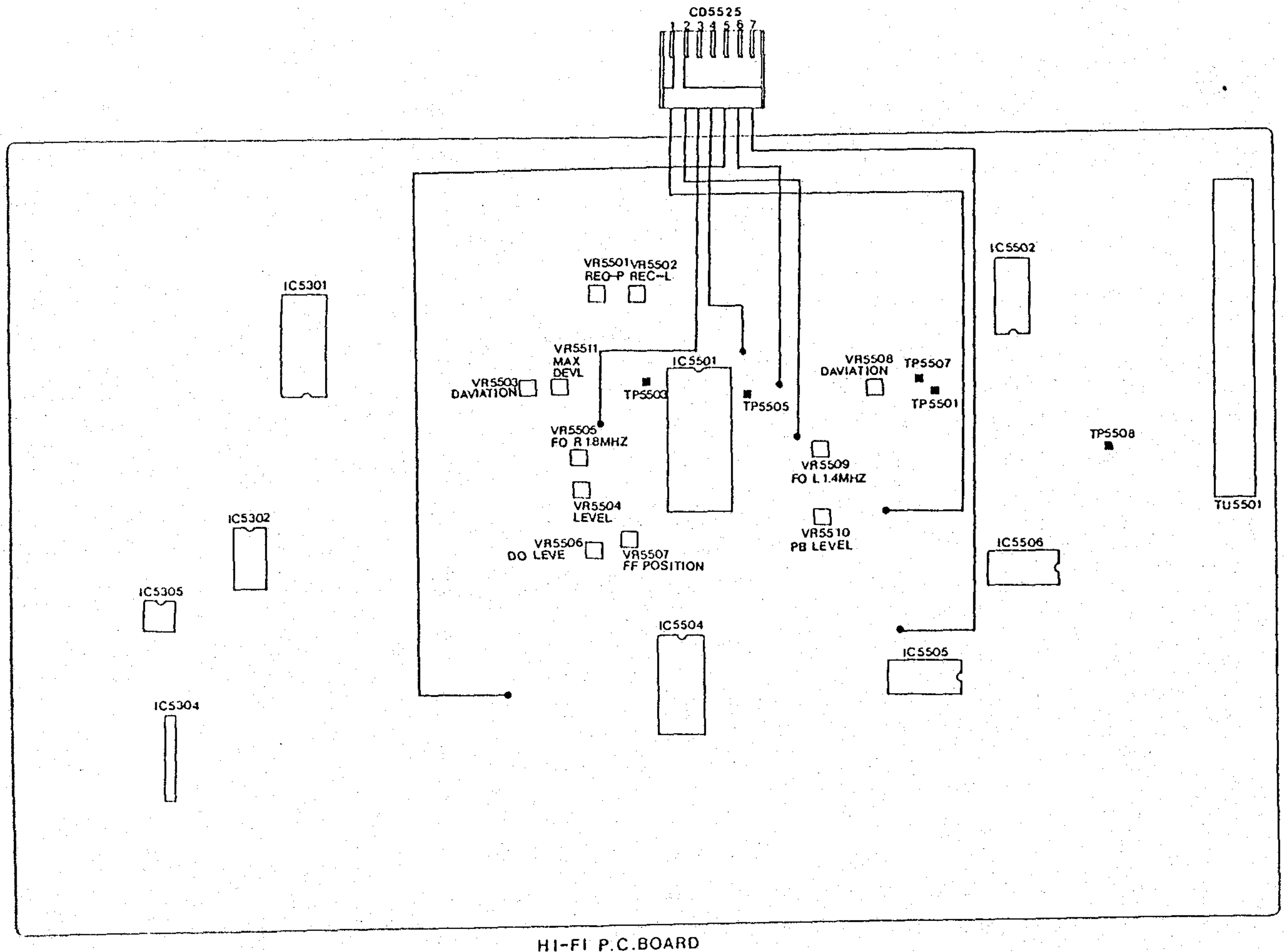

Molykote grease
Cam gear
Shaft

Fig.33-c

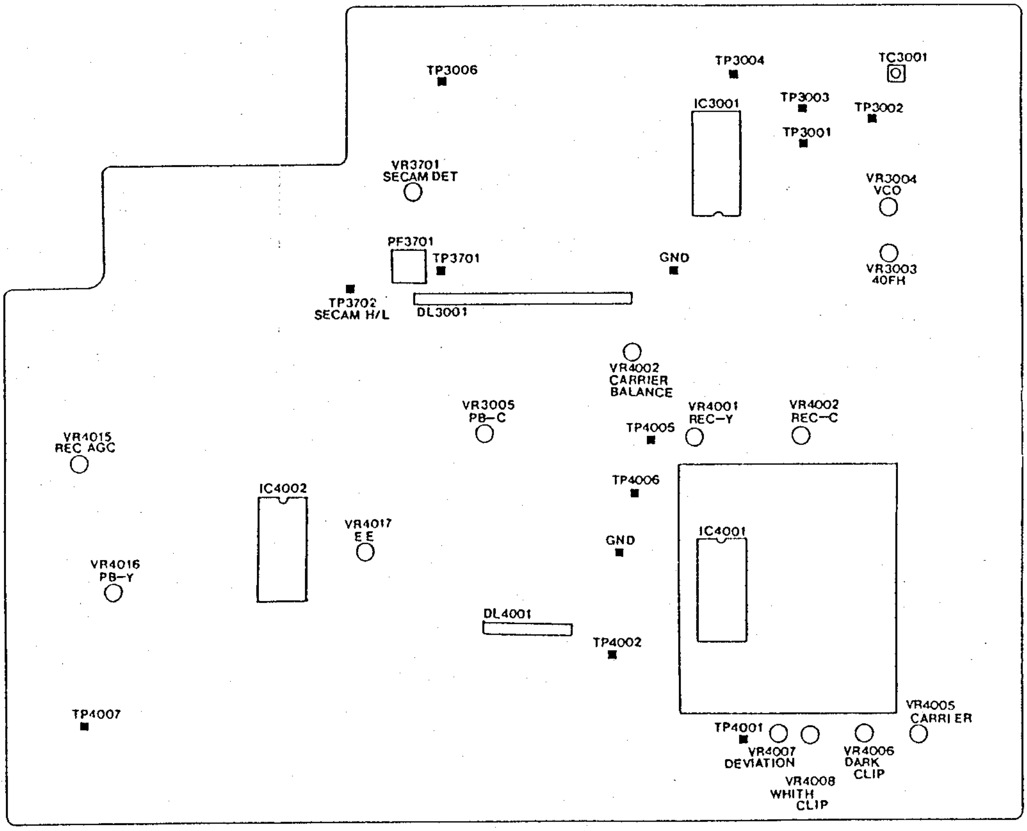
MAJOR COMPONENTS LOCATION GUIDE


CD2004
7 6 5 4 3 2 1
VR1001
TU TOR
VR2008
VS SPD
VR2001
CYL FR
VR2003
PG-S2
IC1003
VR2002
PG-S1
RY2001
IC1001
IC1005
VR2010
REW FR
VR2009
CUE FR
VR2005
TRK FIX
IC2005
IC2001
IC2002
TP2009
TP2002
TP2001
IC2004
IC1002
IC1004
IC2003
RY1001
VR2501
5V ADJ

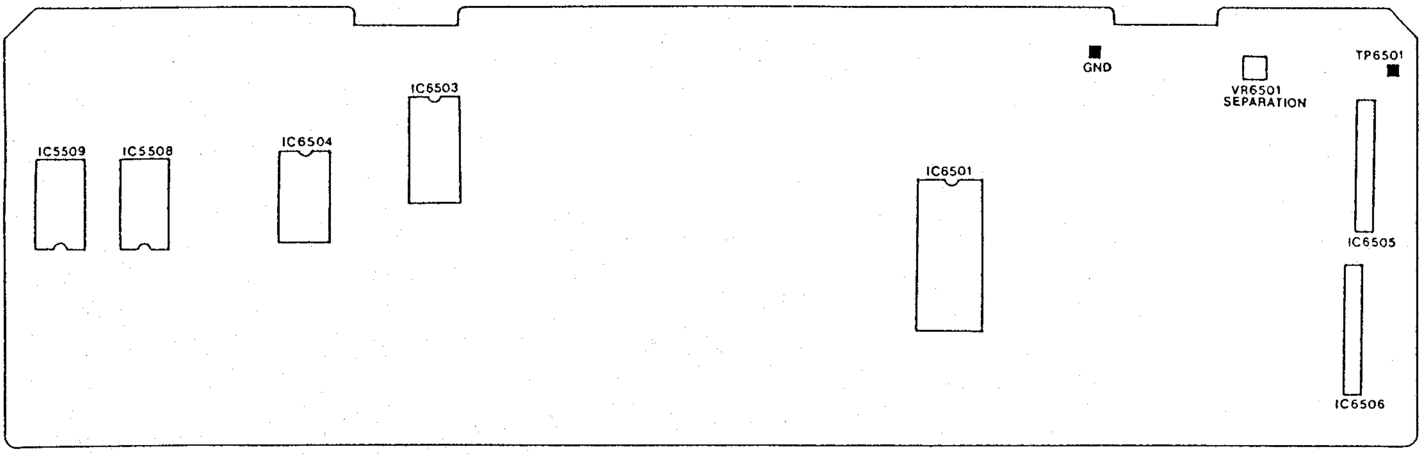
SYSCON-SERVO P.C.BOARD


CD5525
1 2 3 4 5 6 7
IC5502
VR5501
REC-P
VR5502
REC-L
IC5301
VR5511
MAX
DEVL
VR5503
DAVIATION
IC5501
TP5503
TP5505
VR5508
DAVIATION
TP5507
TP5501
TP5508
VR5505
FO R 1.8MHZ
VR5509
FO L 1.4MHZ
VR5504
LEVEL
TU5501
IC5302
VR5506
DO LEVE
VR5507
FF POSITION
VR5510
PB LEVEL
IC5506
IC5305
IC5504
IC5505
IC5304

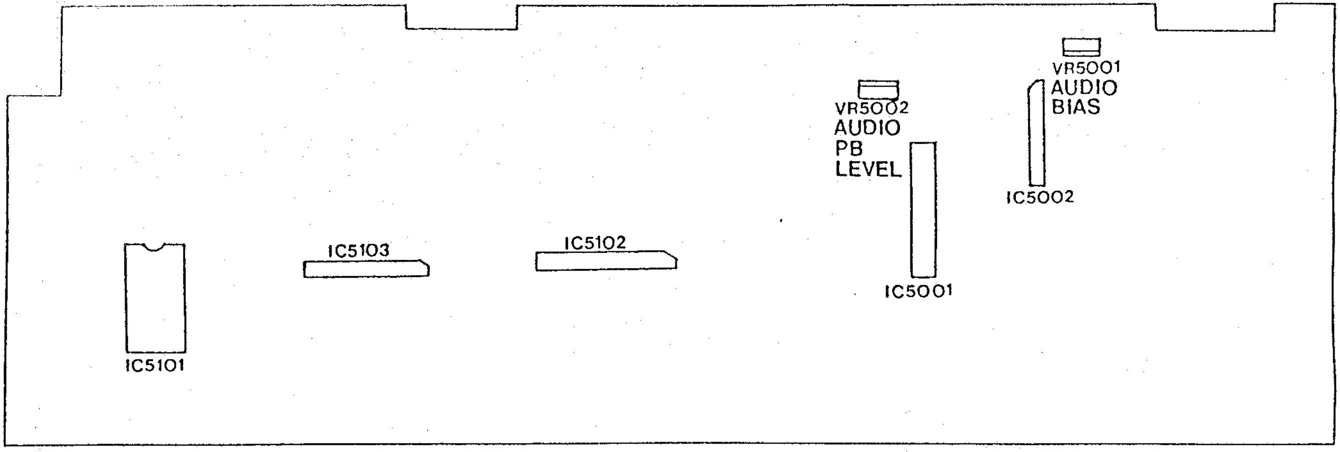
HI-FI P.C.BOARD


TP3006
TP3004
TC3001
IC3001
TP3003
TP3002
TP3001
VR3701
SECAM DET
VR3004
VCO
PF3701
TP3701
GND
VR3003
40FH
TP3702
SECAM H/L
DL3001
VR4002
CARRIER
BALANCE
VR3005
PB–C
VR4001
REC–Y
VR4002
REC–C
TP4005
VR4015
REC AGC
TP4006
IC4002
VR4017
EE
GND
IC4001
VR4016
PB–Y
DL4001
TP4002
TP4007
VR4005
CARRI ER
TP4001
VR4007
DEVIATION
VR4006
DARK
CLIP
VR4008
WHITH
CLIP

YC P.C.BOARD


GND
TP6501
VR6501
SEPARATION
IC6503
IC5509
IC5508
IC6504
IC6501
IC6505
IC6506

STEREO DEMODULATER P.C.BOARD


VR5001
AUDIO
BIAS
VR5002
AUDIO
PB
LEVEL
IC5002
IC5103
IC5102
IC5001
IC5101

NORMAL AUDIO P.C.BOARD

Remove the following parts to start working before operating electric adjustment.

1. Top Cabinet (2 pieces of screws)
2. Bottom plate (7 pieces of screws)

Prepare the following measurement tools for the electrical adjustment.

1. DC Voltmeter (High Impedance)
2. Frequency Counter (High Impedance)
3. Oscilloscope (2 channel)
4. Linear Tape
5. AC Voltmeter
6. Audio Oscillator
7. Hi-Fi Test Tape

Fix up in reverse order of removal after adjustment.

ADJUSTMENT SPECIFICATION

ADJUSTMENT PROCEDURE

■ V-1: P-Con. 5V Adjustment
(Syscon-servo circuit)

CONDITIONS

MODE - STOP

INSTRUCTIONS

(1) Connect AC voltmeter (+) to pin ② on connector CD2004, and AC voltmeter (-) to ① pin.
(2) Adjust VR2501 so that the indicator of voltmeter may become 5.1 +0.2, -0V.

■ E-1 NOT REQUIRED FOR THIS MODEL

■ E-2: Cylinder Free Run Frequency Adjustment
(Syscon-servo circuit)

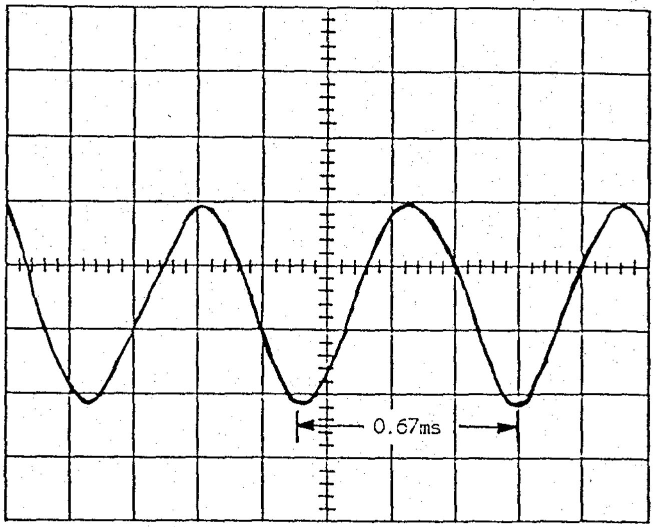
CONDITIONS

MODE - RECORD
Input signal - Color bar

INSTRUCTIONS

(1) Connect frequency counter (+) to pin ⑦ on connector CD2004, and frequency counter (-) to pin ①, then connect SW to pin ④ and ② on CD2004.
(2) Adjust VR2001 so that frequency counter may become 1500 ±5Hz as shown in Fig. 1.

CHART/CHARACTERISTICS



500mV 0.2ms/div
Fig. 2

■ E-3 NOT REQUIRED FOR THIS MODEL

■ E-4: P.G. Shifter Adjustment
(Servo and video circuits)

CONDITIONS

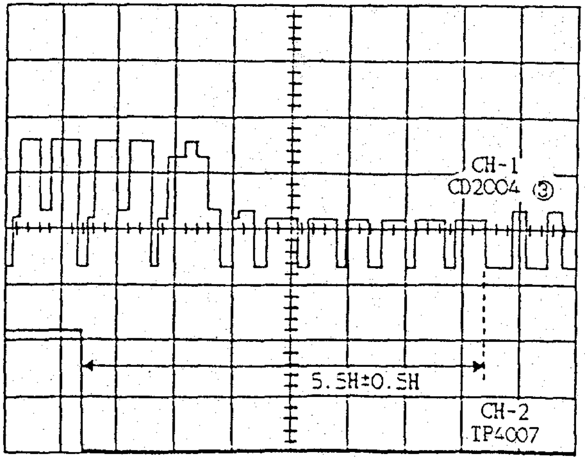
MODE - Play
Input signal - Standard tape

* Tracking control should be set at click point.

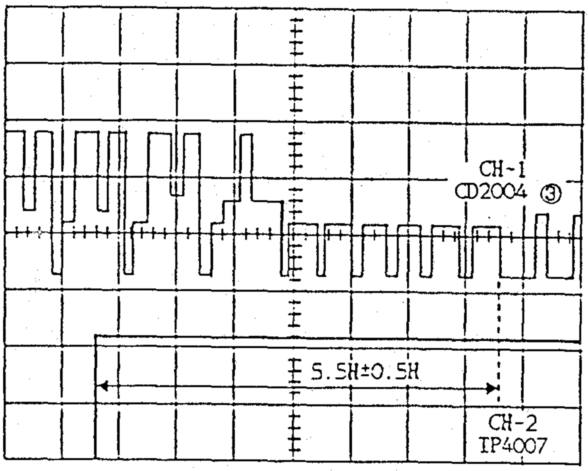
INSTRUCTIONS

(1) Connect CH-1 on oscilloscope to pin ③ on connector CD2004, and earth to pin ①. And connect CH-2 on oscilloscope to TP4007.
(2) Adjust VR2002 and VR2003 so that waveform of oscilloscope may become 5.5 ±0.5 (H) at both leading and trailing edges as Fig. 4-a, b.

CHART/CHARACTERISTICS



2V(CH-1)1V(CH-2)50μs/div
Fig. 4-a



2V(CH-1)1V(CH-2)50μs/div
Fig. 4-b

■ E-5 NOT REQUIRED FOR THIS MODEL

■ E-6: Tracking Fix Adjustment (Servo circuit)

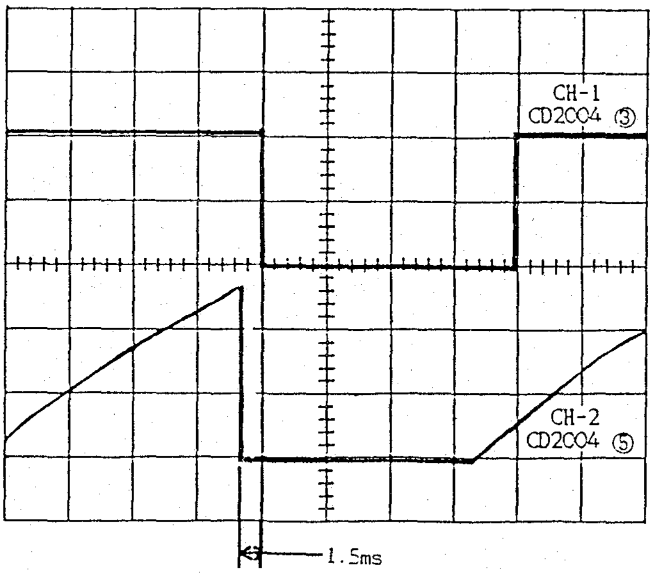
CONDITIONS

MODE - Play
Input signal - Standard tape

INSTRUCTIONS

(1) Connect CH-1 on oscilloscope to pin ③ on connector CD2004, CH-2 to pin ⑤ and each earthes to pin ①.
(2) Adjust VR2005 so that the indication in oscilloscope may become 1.5 ±0.05 msec. as shown in Fig. 6.

CHART/CHARACTERISTICS



2V(CH-1)1V(CH-2)5ms/div
Fig. 6

■ E-7: Visual Search Speed Check Adjustment (Servo circuit)

CONDITIONS

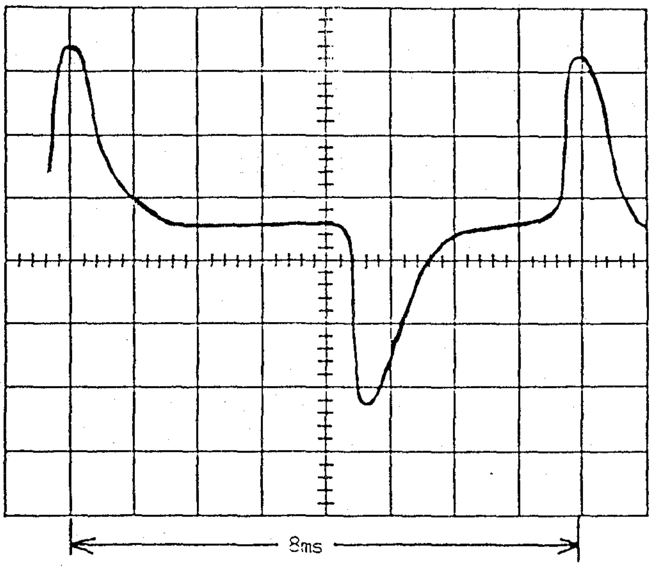
MODE - CUE
Input signal - Tape recorded under EP MODE

INSTRUCTIONS

(1) Connect frequency counter (+) to pin ⑥ of connector CD2004, and frequency counter (-) to pin ①.
(2) Adjust VR2008 so that the indication in frequency counter may become 125 ±2Hz as shown in Fig. 7.

NOTE: It is also recommended that VR2008 is adjusted so that noise bar may stop watching the monitor screen.

CHART/CHARACTERISTICS



200mV 1ms/div
Fig. 7

■ E-8, 9, 10 NOT REQUIRED FOR THIS MODEL

■ E-11: REC A.G.C. Level Adjustment

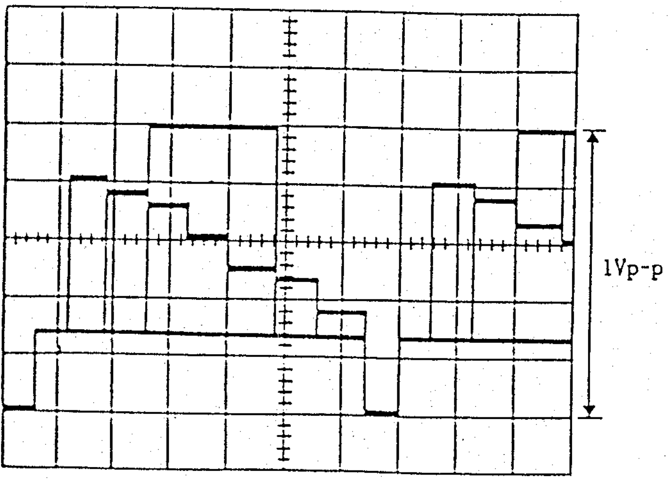
CONDITIONS

MODE - STOP
Input signal - Color bar

INSTRUCTIONS

Connect oscilloscope to TP4002. Adjust VR4015 so that the waveform may become 1Vp-p as shown in Fig. 11.
The tolerance of adjustment is 1.0 +0.1, -0V.

CHART/CHARACTERISTICS



200mV 10 µs/div
Fig. 11

■ E-12: E-E Level Adjustment

CONDITIONS

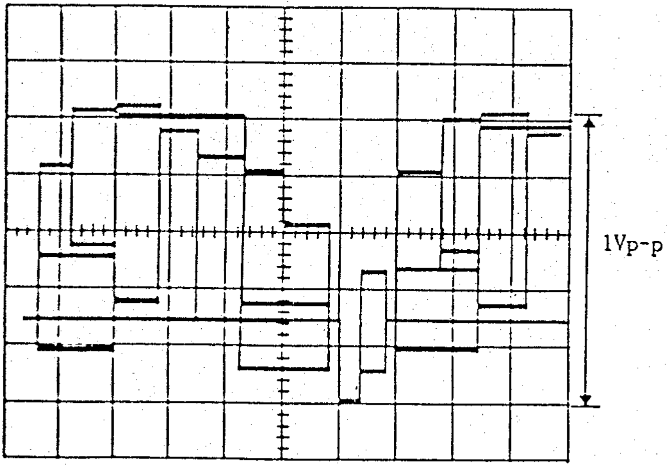
MODE - STOP
Input signal - Color bar

NOTE: Video out of the unit should be terminated with 75 ohm load.

INSTRUCTIONS

Connect oscilloscope to TP4011. Adjust VR4017 so that waveform may become 1.0Vp-p as shown in Fig. 12. Tolerance of adjustment is 1.0 ±0.05V.

CHART/CHARACTERISTICS



200mV 10 µs/div
Fig. 12

■ E-13-1: Standard Oscillation Frequency Confirmation Adjustment

CONDITIONS

MODE - STOP
Input signal - Color bar

NOTE
Use high impedance probe.

INSTRUCTIONS

(1) Connect frequency counter to TP3003.
(2) Adjust TC3001 so that the counter indicates 4.435572MHz ±20Hz.

■ E-13-2: 40 fH Frequency Adjustment (Chrominance Circuit)

CONDITIONS

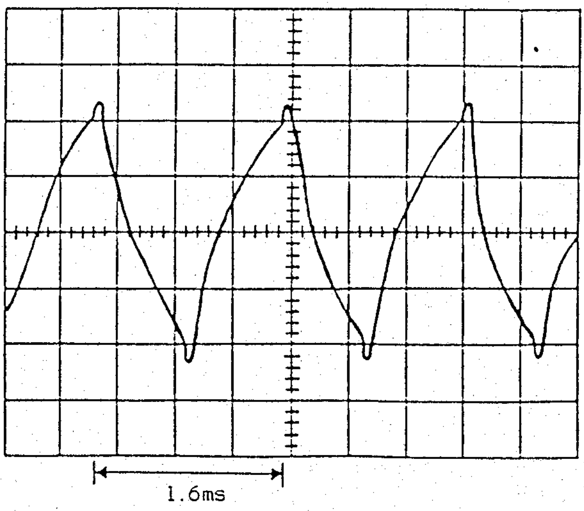
MODE - RECORD
Input signal - Color bar

* Use high impedance probe for input of counter. Proportion should be 10:1 when using oscilloscope probe.

INSTRUCTIONS

(1) Short TP3004 and TP3002 by jumper wire.
(2) Connect frequency counter to TP3001 and adjust VR3003 (10KB) so that counter may indicates 625 ±5KHz as shown in Fig. 13

CHART/CHARACTERISTICS



200mV 0.5 µs/div
Fig. 13

■ E-14: VCO Frequency Adjustment (Chrominance Circuit)

CONDITIONS

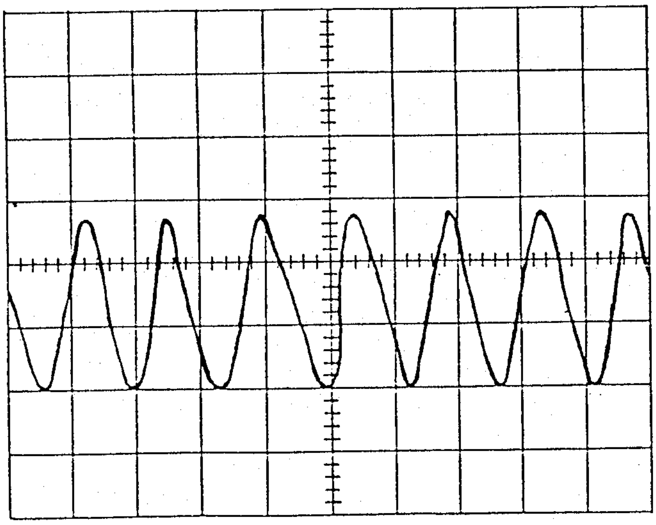
MODE - PLAY
Input signal - Color bar test tape

* Use high impedance probe for input of counter. Proportion should be 10:1 when using oscilloscope probe.

INSTRUCTIONS

Connect frequency counter to TP3006. Playback the test tape (color bar) and adjust VR3004 to make 4.433619 ±10Hz as shown in Fig. 14

CHART/CHARACTERISTICS



100mV 50ns/div
Fig. 14

■ E-15: Dark Clip and White Clip Adjustment

CONDITIONS

Supply color bar signal to video input jack and set the unit to recording condition as shown in Fig. 15.

NOTE: Hairs of overshoot and undershoot should not be taken into account.

INSTRUCTIONS

Connect oscilloscope to TP4001 and adjust VR4008 and VR4006 so that waveforms may become as shown in Fig. 15.

VR4008 -- White Clip (170%)
VR4006 -- Dark Clip (140%)

CHART/CHARACTERISTICS

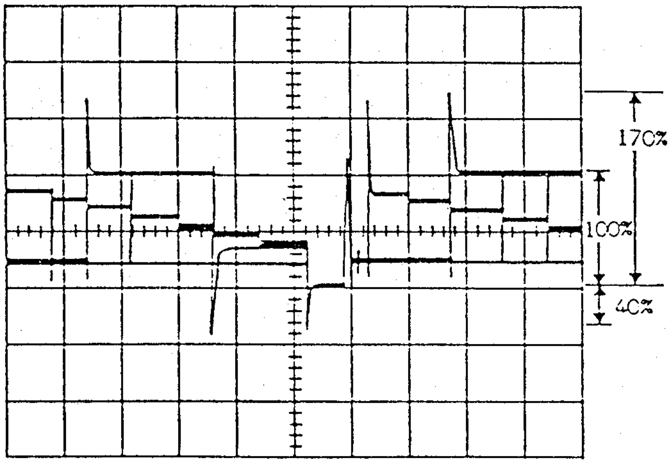


Fig. 15

■ E-16: Sync. Tip Div. Adjustment

* Do not operate this adjustment very often.

CONDITIONS

Input signal - Color Bar
MODE - RECORD
Input signal - No signal
MODE - RECORD

INSTRUCTIONS

(1) Disconnect the soldered part of shield plate on P.C.Board. Condition should be record mode with color bar signal. Connect oscilloscope to 19th pin of IC4001 (LA7033).
(2) Set the oscilloscope to DC mode and measure voltages at [A] and [B] points.
(3) Condition should be record mode with no signal. Connect plus (+) side of DC supply to 18th pin of IC4001 (LA7033) and GND side should be connected to GND side of VCR unit.
(4) Bring voltage value of DC supply to same as that of [A] point, measured at step 2 above. Connect frequency counter to TP4005 and adjust VR4005 so that it may become 3.8 MHz ±50 KHz.
(5) Increase DC supply value up to that of [B] point, measured at step 2 above. Adjust VR4007 so that it may become 4.8 MHz ±50 KHz
(6) Check step 4 again.
(7) Connect the shield plate.

■ E-17: Record Current Adjustment

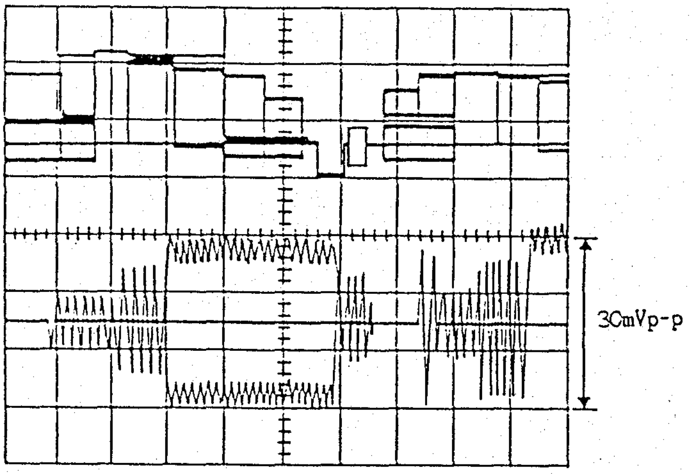
CONDITIONS

MODE - RECORD
Input signal - Color bar

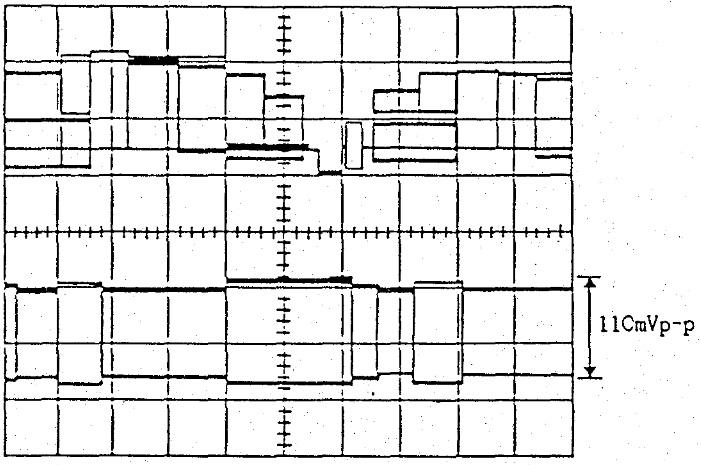
INSTRUCTIONS

(1) Ground **TP4006** using condenser (50V 1 μF).
(2) Connect CH-1 of oscilloscope to **TP4005** and CH-2 to TP4007.
(3) Adjust **VR4002** so that cyan level may become 28 ±2 mVp-p, as **Fig. 17-a.**
(4) Then disconnect condenser which has been grounded, adjust **VR4001** so that horizontal sync. level may become 110 ±5 mVp-p, as shown in **Fig. 17-b.**

CHART/CHARACTERISTICS



10mV 10 μs/div
Fig. 17-a



50mV 10 μs/div
Fig. 17-b

■ E-18: Playback Level Adjustment

CONDITIONS

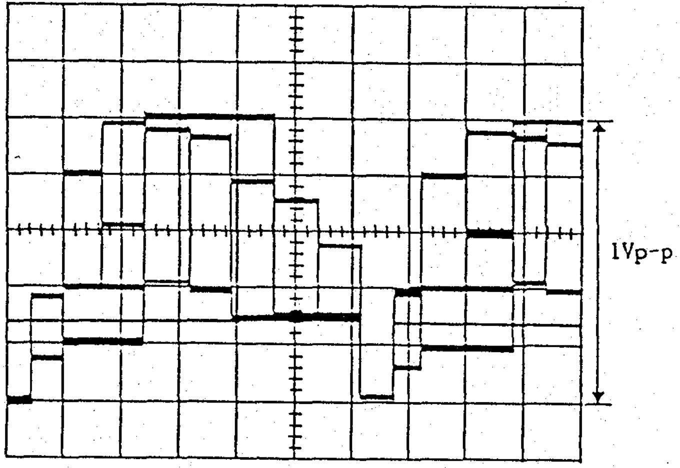
MODE - PLAY BACK
Input signal - Color bar signal

INSTRUCTIONS

Connect oscilloscope to **TP4007.** Adjust **VR4016** so that the signal may become 1.0 ±0.05 (V).
Next, adjust **VR3005** so that magenta color level may become 0.5 ±0.05 (V) as shown in **Fig. 18.**

NOTE: The above adjustment values are measured with the video output jack terminated with 75 ohm resistor.

CHART/CHARACTERISTICS



200mV 10 μs/div
Fig. 18

■ E-19: Audio Bias Current Adjustment

CONDITIONS

MODE - RECORD
Input signal - No signal

INSTRUCTIONS

Remove the shield plate. Connect AC voltmeter to both ends of 10 ohm on A/C head P.C.Board. Adjust **VR5001** so that voltage may become 3.0 ±0.1 mVrms. After adjustment, lift up the shield plate as shown in **Fig. 19**

CHART/CHARACTERISTICS

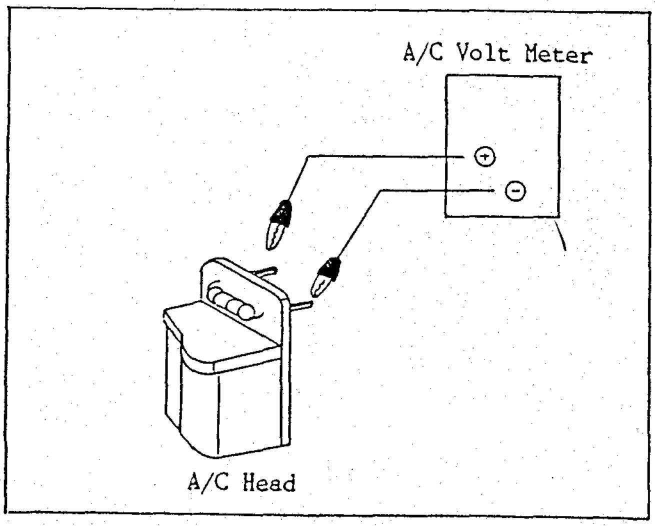


Fig. 19

■ E-20: Audio Playback Level Adjustment

CONDITIONS

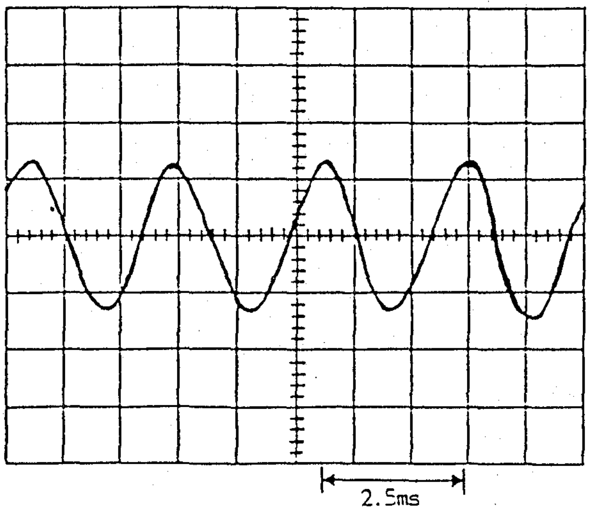
MODE - Self record and play back
Input signal - 1KHz 0.3Vrms, Audio signal
Audio Select Switch - Normal position
MPX Switch - OFF

INSTRUCTIONS

Connect 47K ohm load resistor to audio output terminal which is for playback of prerecorded part. Connect AC voltmeter to audio output terminal and adjust VR5002 so that audio output may become -6 ±0.5 dBm as shown in **Fig. 20**

NOTE: Measure on condition that 47K ohm load is connected to audio output.

CHART/CHARACTERISTICS



200mV 1ms/div
Fig. 20

■ E-21~25 NOT REQUIRED FOR THIS MODEL

■ E-26: Carrier Balance Adjustment

CONDITIONS

MODE - PLAYBACK
Input signal - Color bar tape

INSTRUCTIONS

(1) Connect the oscilloscope to the **TP4007**.
(2) Playback the color bar test tape.
(3) Adjust the VR4002 so that noise in the White 100% part become minimum as shown in **Fig. 26**.
(4) At that time noise in the color part should be minimum.

CHART/CHARACTERISTICS

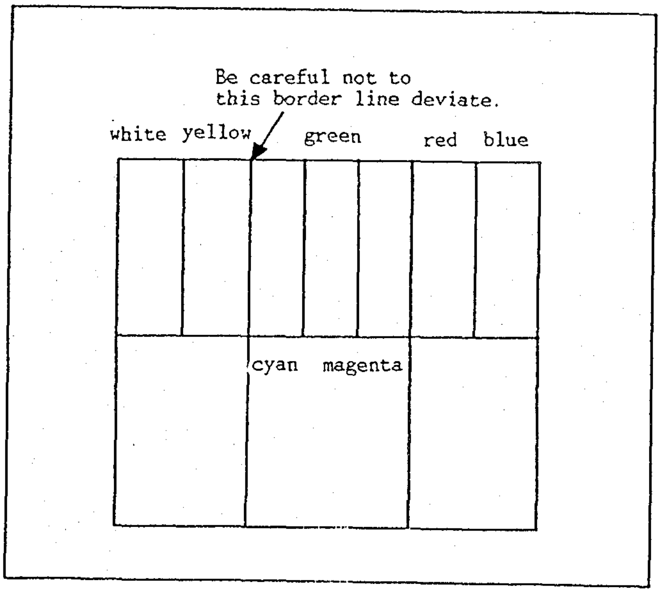
■ E-27: VS Cylinder Free Run Adjustment

CONDITIONS

MODE - PLAY -- VSF
-- VSR
Input signal - Color bar tape

INSTRUCTIONS

By using monitor TV, adjust **VR2009** (68KB) so that color cut of yellow and cyan may be improved, at the time of VSF.
Likewise, adjust **VR2010** (68KB) so that color cut of green and magenta may be improved at the time of VSR. **(Fig. 27)**



MONITOR TV Fig. 27

■ E-28: SECAM Ldentification Adjustment (Chrominance circuit)

CONDITIONS

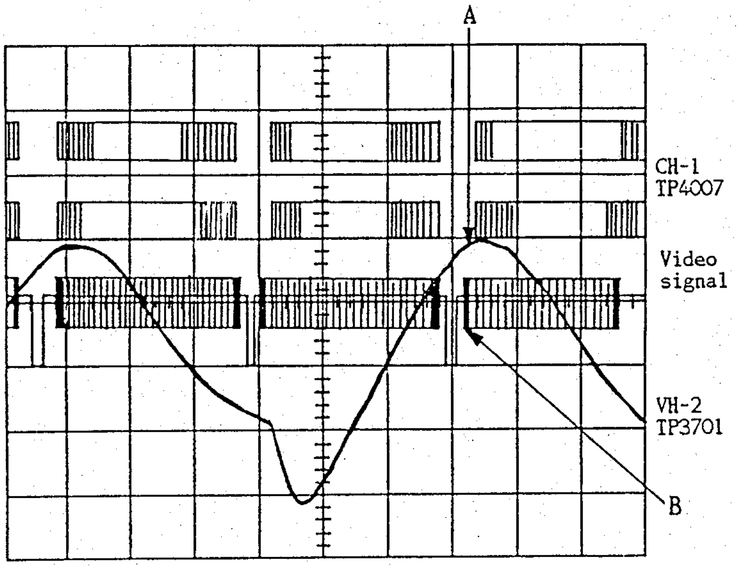
MODE - RECORD
Input signal - (SECAM) Video RF
SECAM signal

SECAM input level	37dB
SECAM input level	35dB
PAL input level	40dB

INSTRUCTIONS

(1) Connect CH-1 of oscilloscope to TP4007 of luminance circuit, and CH-2 to TP3701 of chrominance circuit.
(2) Adjust **PF3701** so that peak of waveform A and leading edge of video signal of waveform B may become same as per **Fig. 28**.
(3) Connect DC voltmeter to **TP3702** of chrominance circuit.
(4) When SECAM 37dB signal is input, adjust **VR3701** so that it may become low (0V) level. Next change input level to 35dB and confirm it becomes low level. Confirm it becomes high level. Again when SECAM 37dB is input after readjustment of **VR3701**.
(5) Next, confirm it becomes high (9V) level when PAL 40dB is input.

CHART/CHARACTERISTICS



20 µs/div

Fig. 28

■ E-29 NOT REQUIRED FOR THIS MODEL

■ E-30: V.C.O. Free Run Frequency Adjustment

CONDITIONS

MODE - RECORD
Input signal - no signal
REC AGC SW - OFF
REC Volume - minimum

INSTRUCTIONS

(1) Connect frequency counter to TP503, then adjust VR5505 so that frequency counter display may become 1825 ±5 KHz
(2) Next, connect frequency counter to TP504 and adjust VR5509 so that frequency counter display may become 1425 ±5 KHz.

■ E-31: Hi-Fi Deviation Adjustment

CONDITIONS

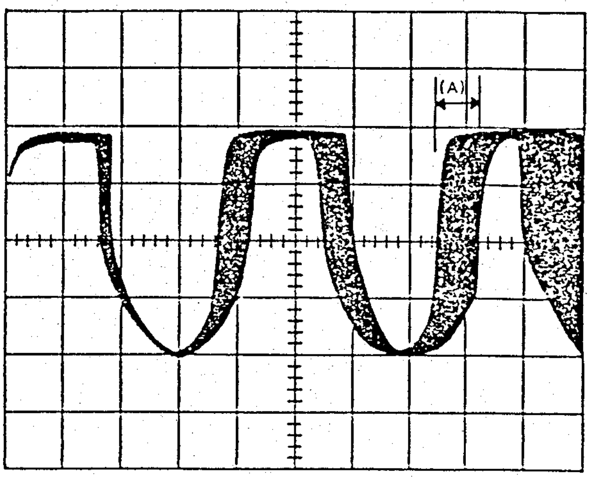
MODE - RECORD
Input signal - Color bar
300 mVrms 400 Hz Sine Wave
Audio SW - Stereo
MPX SW - OFF

INSTRUCTIONS

(1) Turn TP5503 so that the same waveform as Fig. 31 appears in the oscilloscope.
(2) Adjust VR5503 (R-CH) to (A) 0.1 µsec with TP5503 and adjust VR5504 (L-CH) to (A) 0.062 µsec with TP5504.

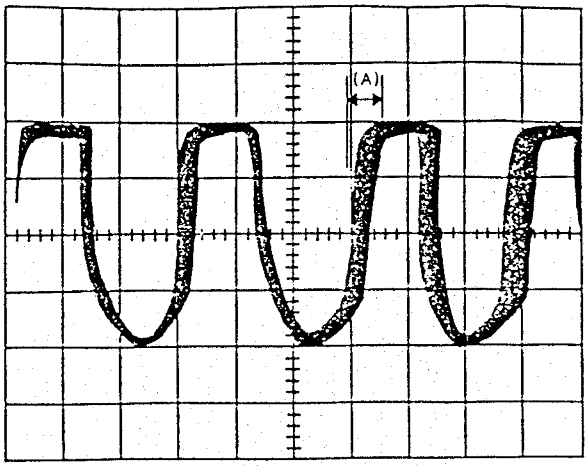
NOTE: Expand the part "A" with the Delay.

CHART/CHARACTERISTICS



L-CH

50mV 0.2 µs/div
Fig. 31-a



R-CH

50mV 0.2 µs/div
Fig. 31-b

■ E-32: Max. Deviation Adjustment

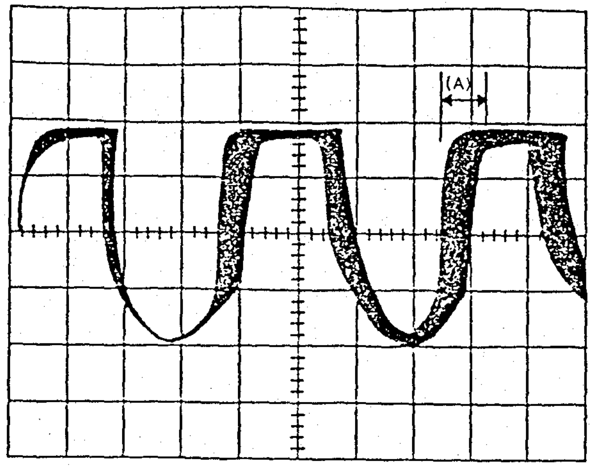
CONDITIONS

MODE - RECORD
Input signal - Color bar (Video)
2.45 Vrms 10 KHz Sine Wave
Audio SW - Stereo
MPX SW - OFF

INSTRUCTIONS

(1) Turn TP5503 so that the same waveform as Fig. 31 appears in the oscilloscope. Adjust "A" to 0.187 µsec with VR5511 as shown in Fig. 32.

CHART/CHARACTERISTICS



50mV 0.2 µs/div
Fig.32

■ E-33: Audio Record Current Adjustment

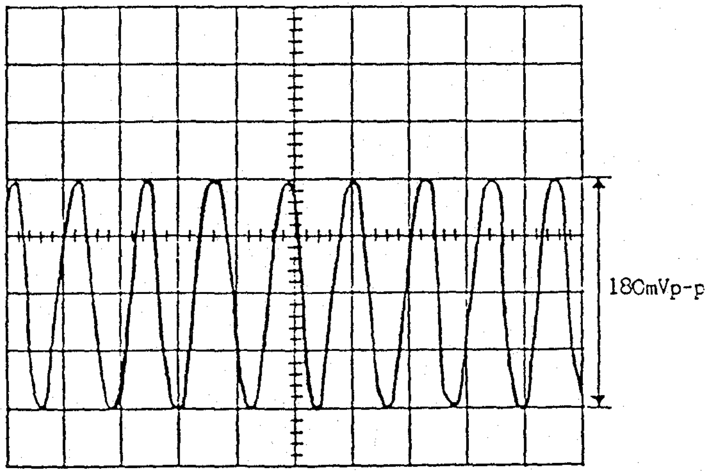
CONDITIONS

MODE - RECORD
Input signal - no signal
REC AGC SW - OFF
REC Volume - minimum

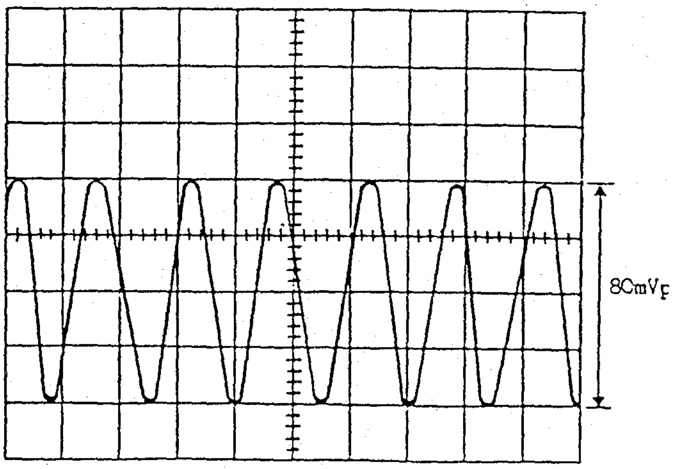
INSTRUCTIONS

(1) Connect condenser (16V 10 µF) to TP5504, then ground it.
(2) Connect oscilloscope to TP5508.
(3) Adjust VR5501 so that waveform may be the same as shown in Fig. 33-a.
(4) Connect TP5504 condenser to TP5503.
(5) Adjust VR5502 so that waveform may be the same as shown in Fig. 33-b.

CHART/CHARACTERISTICS



50mV 0.2 µs/div
Fig. 33-a



20mV 0.2 µs/div
Fig. 33-b

■ E-34: Audio Playback Switching Point Adjustment

CONDITIONS

MODE - PLAYBACK
Input signal - Hi-Fi standard tape

INSTRUCTIONS

(1) Connect CH-1 on oscilloscope to CD2004, CH-2 to CD5525 and CH-3 to TP5511 as shown in Fig. 34.
(2) Expand the part (C) in Fig. 34 by using deplay function.
(3) Measure the point (D), where FM envelope doesn't appear, with turning VR5507 clockwise.
(4) Next, measure the point (E), where FM envelope doesn't appear, with turning it counter-clockwise.
(5) Finally, adjust VR5507 so that the switching position (F) in waveform for CH-3 may be in the middle of between (D) and (E).

CHART/CHARACTERISTICS

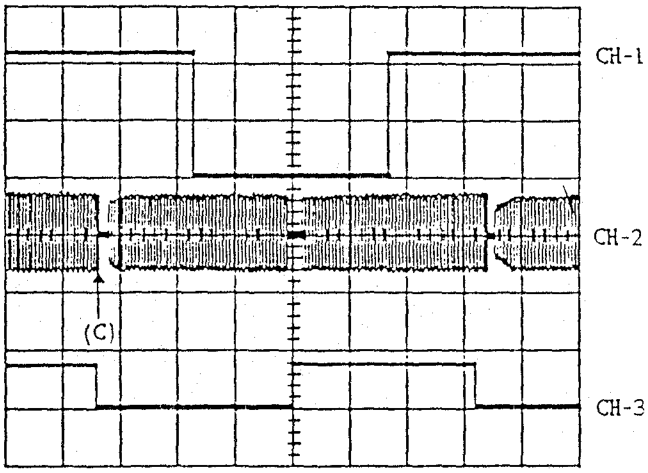


Fig. 34-c

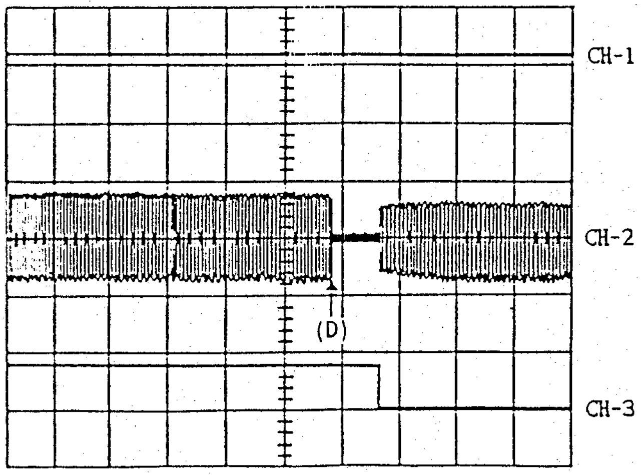


Fig. 34-d

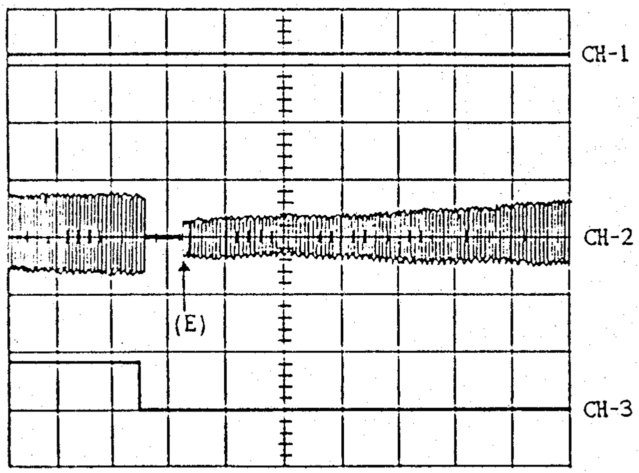


Fig. 34-e

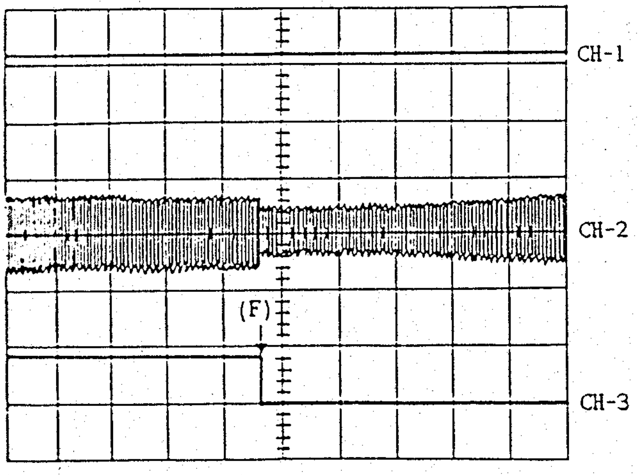


Fig. 34-f

■ E-35: Audio Dropout Control Level Adjustment

CONDITIONS

MODE - PLAYBACK
Input signal - Mock tape

INSTRUCTIONS

(1) Rotate VR5506 counterclockwise fully, watching the parts-side of P.C.Board, then wind it back gradually as shown in Fig. 35-a
(2) When the wave of 7pin on CD5525 changes low level from high level, stop rewinding as shown in Fig. 35-b.

NOTE
Output of 1.4MHz oscilloscope is 15mVp-p.
CH-2 is measured be DC Mode.
Frequency is 1400MHz.

CHART/CHARACTERISTICS

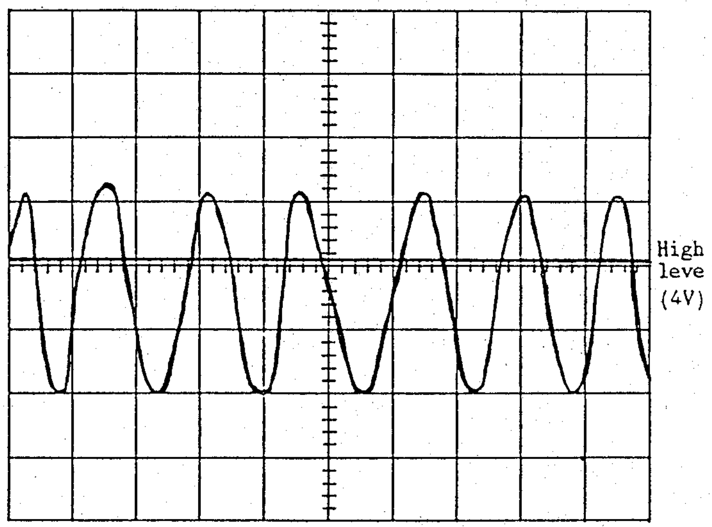


Fig. 35-a

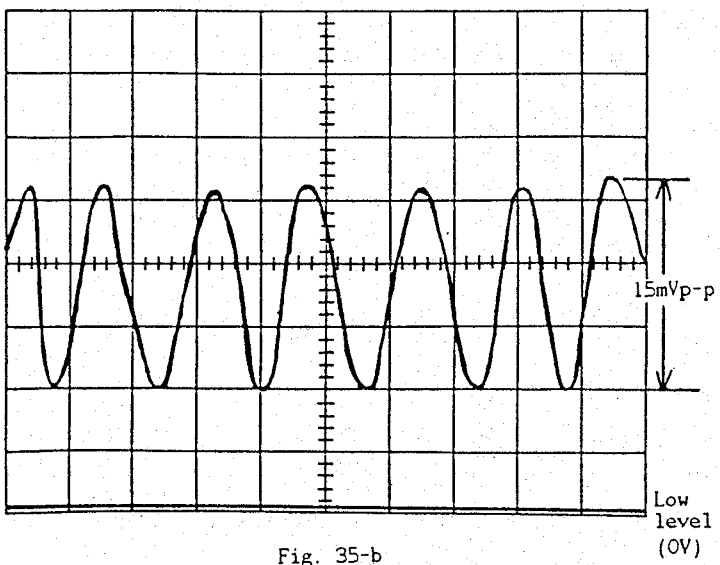


Fig. 35-b

■ E-36: Hi-Fi Playback Level Adjustment

CONDITIONS

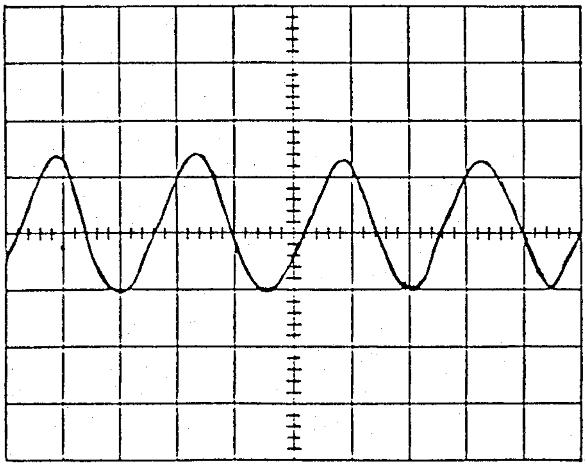
MODE - PLAYBACK
Input signal - Hi-Fi standard tape
MPX SW - OFF
Audio Output Select SW - Stereo

INSTRUCTIONS

(1) Connect AC voltmeter to audio output terminal and adjust VR5504 (R) and VR5510 (L) to -6 ±0.5 dBm as shown in Fig. 36.

NOTE: Measure on condition that 47K ohm load is connected to audio output.

CHART/CHARACTERISTICS



500mV 1ms/div
Fig. 36

■ E-37: Levelmeter Level Confirmation Adjustment

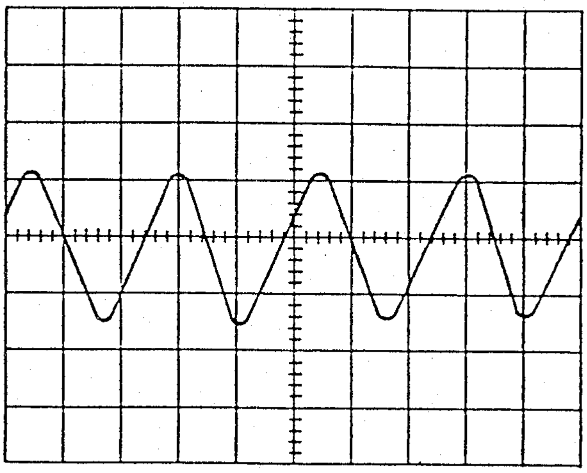
CONDITIONS

MODE - STOP
Input signal - 400 Hz sine curve, 300 mVrms
REC AGC SW - OFF
REC AGC Volume - Adjust audio output level to -6 dBm with it.
MPX SW - OFF
Audio output select SW - Stereo

INSTRUCTIONS

(1) Make sure that level meter display position is at 0 dB (all the green L.E.D. come on). When it isn't at 0 dB, adjust the level meter volume to 0 dB as shown in Fig. 37.

CHART/CHARACTERISTICS



500mV 1ms/div
Fig. 37

■ E-38 NOT REQUIRED FOR THIS MODEL

■ E-39: Stereo Demodulator V.C.O Adjustment

CONDITIONS

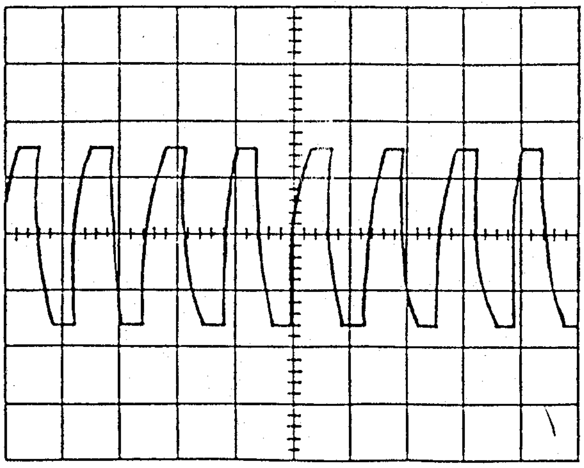
MODE - STOP
Input signal - no signal on tuner
Tuner mode select SW - Stereo

INSTRUCTIONS

(1) Connect frequency counter to TP6501 and adjust VR6502 to 15.625 Hz ±50 Hz as shown in Fig. 39.

NOTE: Disconnect C6513 (16V 10 μF) in adjusting. Solder it after adjustment.

CHART/CHARACTERISTICS



5V 50 μs/div
Fig. 39

■ E-40 NOT REQUIRED FOR THIS MODEL

■E-41: Separation Adjustment

CONDITIONS

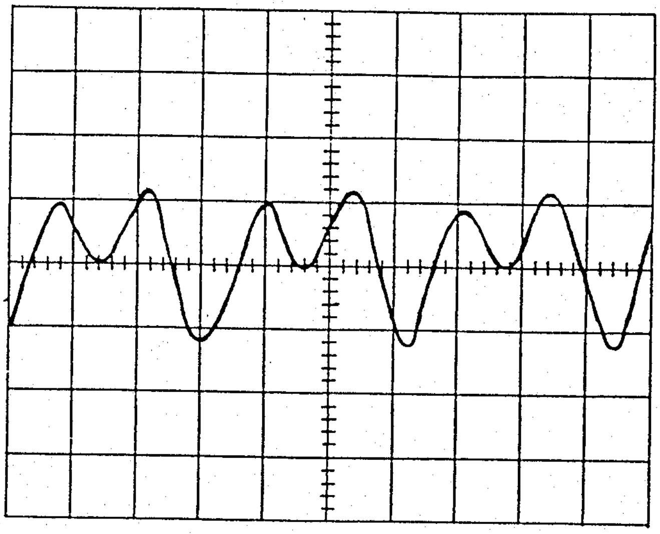
MODE - STOP
Input signal - Stereo signal
Tuner select SW - Stereo
Audio output select SW - Stereo
REC AGC SW - OFF
MPX SW - OFF
Input select SW - Tuner

INSTRUCTIONS

(1) Adjust the VR6501 so that the separation from R ch to L ch become maximum as shown in Fig. 41.
(2) Confirm that the separation is more than 30dB at that time.

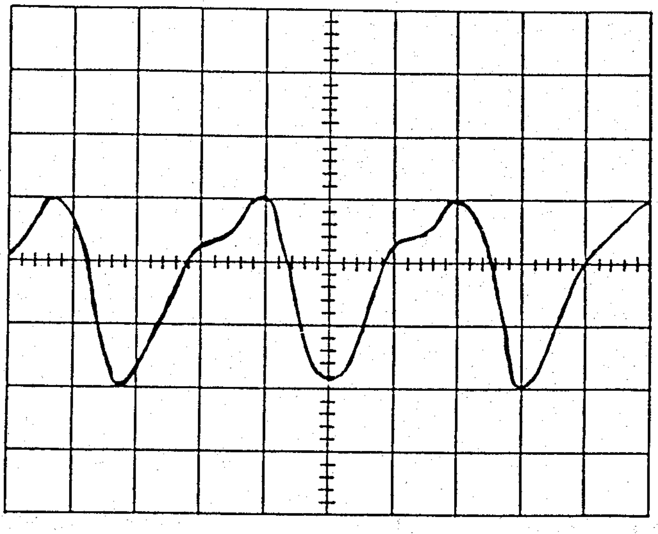
CHART/CHARACTERISTICS

In case of correct adjustment



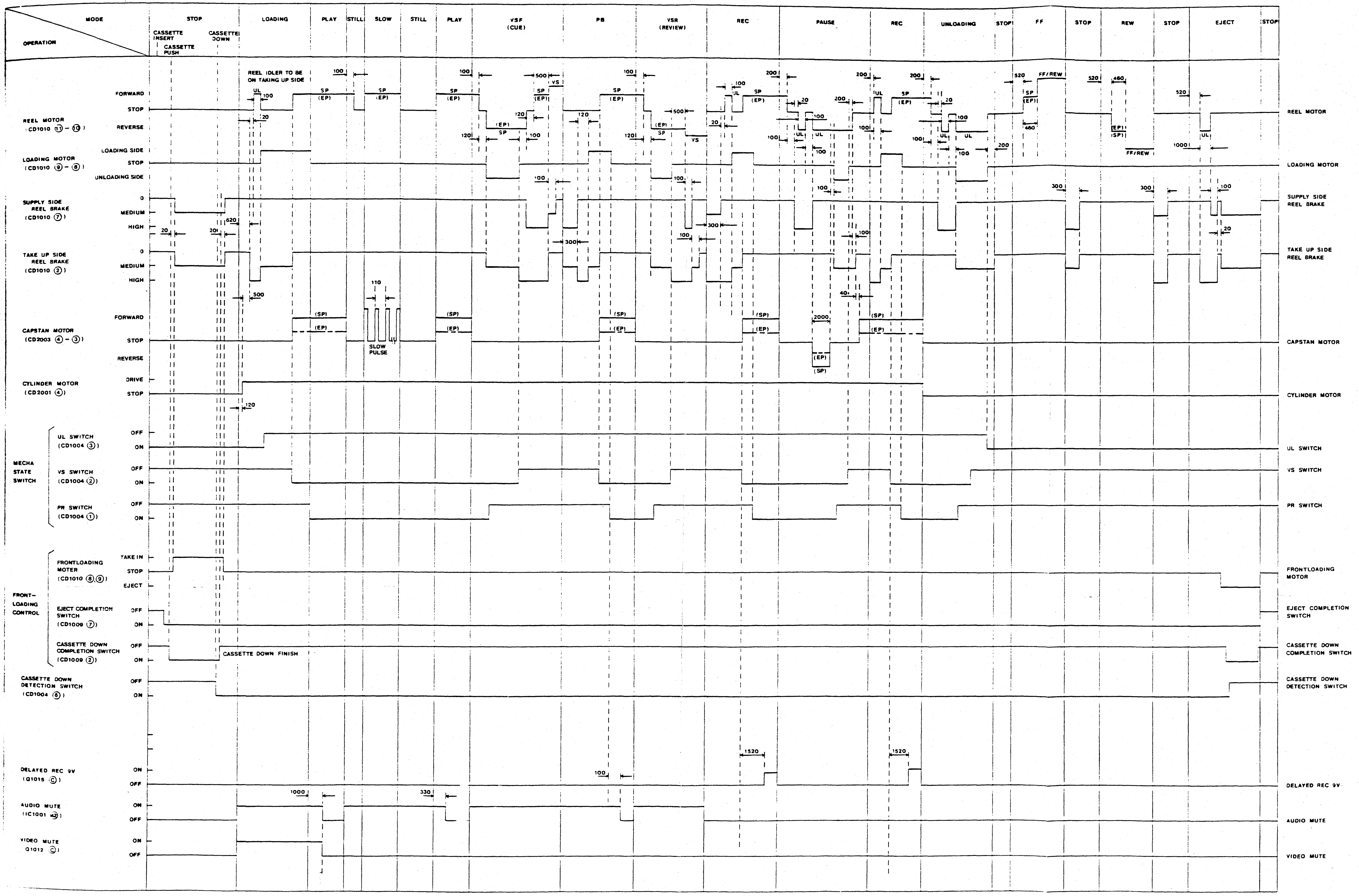
50mV 0.2ms/div Fig. 41-a

In case of wrong adjustment

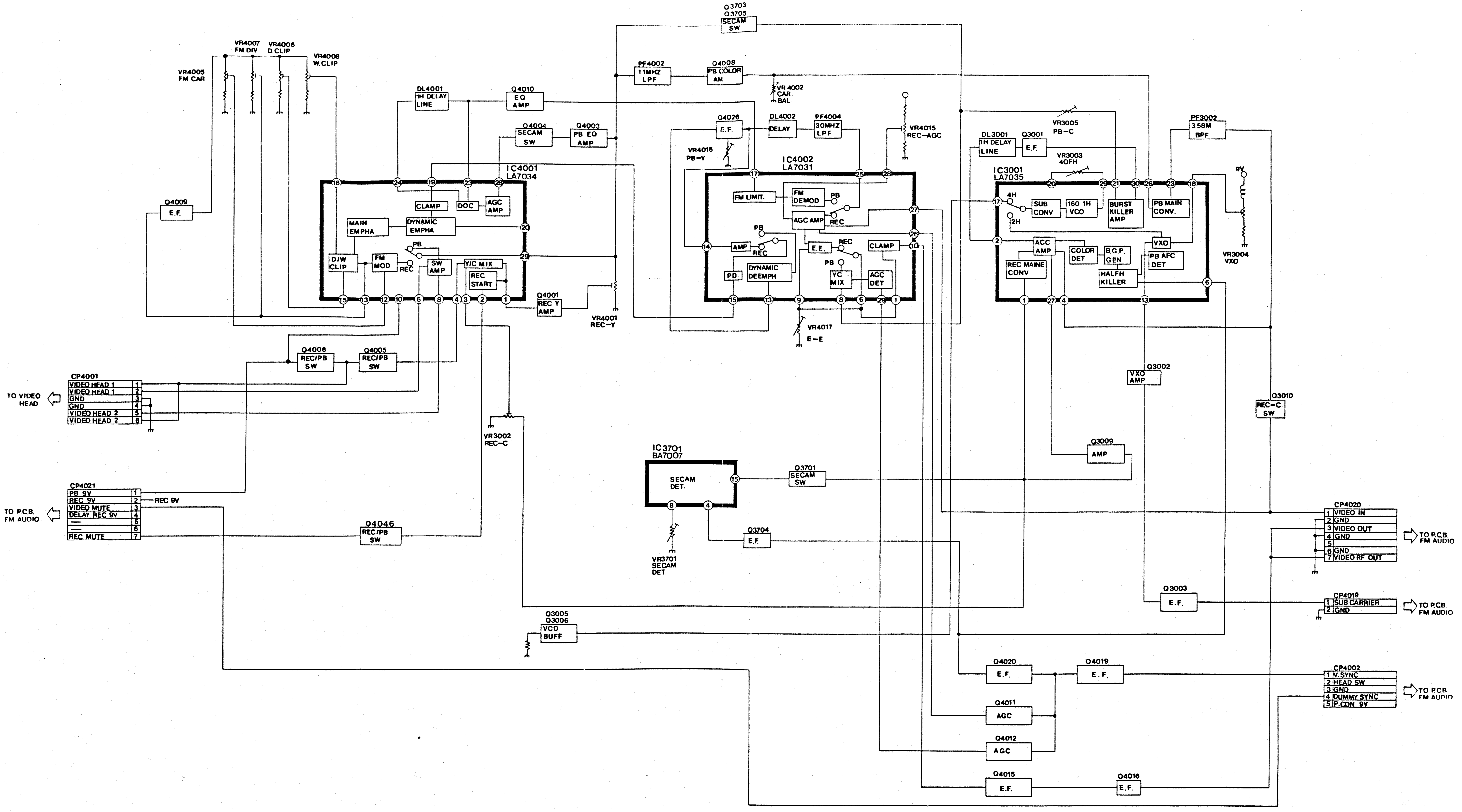


50mV 0.2ms/div Fig. 41-b

TIMING CHART

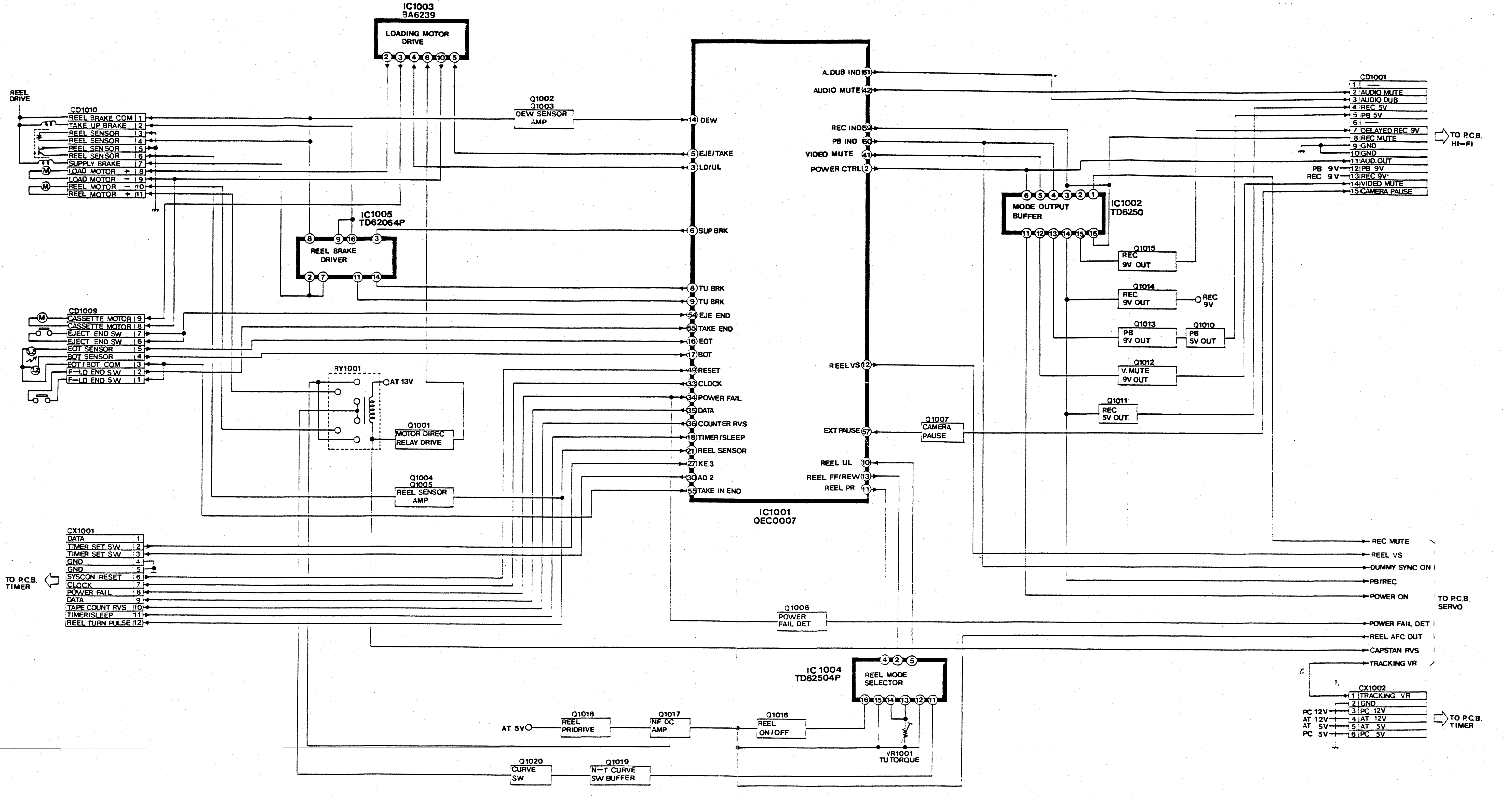


Y/C BLOCK DIAGRAM



Q3703
Q3705
SECAM SW
VR4007 FM DIV
VR4006 D.CLIP
VR4008 W.CLIP
VR4005 FM CAR
PF4002 1.1MHZ LPF
Q4008 PB COLOR AM
VR 4002 CAR. BAL.
DL4001 1H DELAY LINE
Q4010 EQ AMP
Q4004 SECAM SW
Q4003 PB EQ AMP
Q4026 E.F.
DL4002 DELAY
PF4004 30MHZ LPF
VR4015 REC-AGC
VR4016 PB-Y
VR3005 PB-C
DL3001 1H DELAY LINE
Q3001 E.F.
VR3003 40FH
PF3002 3.58M BPF
9V
Q4009 E.F.
IC4001 LA7034
CLAMP
DOC
AGC AMP
MAIN EMPHA
DYNAMIC EMPHA
PB
D/W CLIP
FM MOD
REC
SW AMP
Y/C MIX
REC START
IC4002 LA7031
FM LIMIT.
FM DEMOD
PB
AGC AMP
REC
PB
AMP
REC
E.E.
REC
PB
CLAMP
PD
DYNAMIC DEEMPH
YC MIX
AGC DET
IC3001 LA7035
4H
2H
SUB CONV
160 1H VCO
BURST KILLER AMP
PB MAIN CONV.
ACC AMP
COLOR DET
B.G.P. GEN
VXO
REC MAINE CONV
HALFH KILLER
PB AFC DET
VR3004 VXO
Q4001 REC Y AMP
VR4001 REC-Y
VR4017 E-E
Q4006 REC/PB SW
Q4005 REC/PB SW
CP4001
1 VIDEO HEAD 1
2 VIDEO HEAD 1
3 GND
4 GND
5 VIDEO HEAD 2
6 VIDEO HEAD 2
TO VIDEO HEAD
VR3002 REC-C
Q3002 VXO AMP
Q3010 REC-C SW
Q3009 AMP
IC3701 BA7007
SECAM DET.
Q3701 SECAM SW
VR3701 SECAM DET.
Q3704 E.F.
CP4021
1 PB 9V
2 REC 9V
3 VIDEO MUTE
4 DELAY REC 9V
5 —
6 —
7 REC MUTE
REC 9V
TO P.C.B. FM AUDIO
Q4046 REC/PB SW
CP4020
1 VIDEO IN
2 GND
3 VIDEO OUT
4 GND
5
6 GND
7 VIDEO RF OUT
TO P.C.B. FM AUDIO
Q3003 E.F.
CP4019
1 SUB CARRIER
2 GND
TO P.C.B. FM AUDIO
Q3005
Q3006
VCO BUFF
Q4020 E.F.
Q4019 E.F.
CP4002
1 V.SYNC
2 HEAD SW
3 GND
4 DUMMY SYNC
5 P.CON 9V
TO P.C.B. FM AUDIO
Q4011 AGC
Q4012 AGC
Q4015 E.F.
Q4016 E.F.

SYSTEM CONTROL BLOCK DIAGRAM

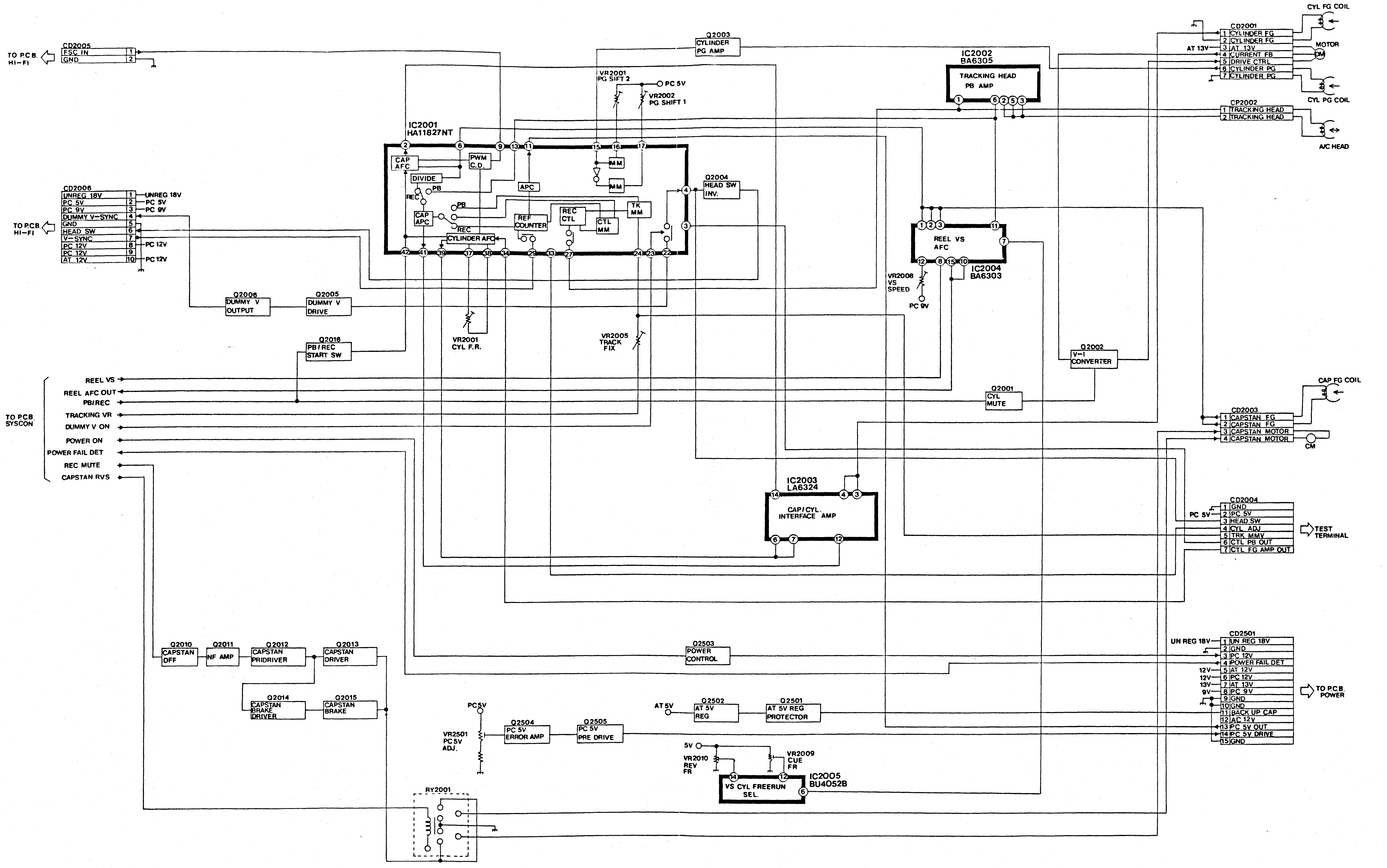

IC1003
BA6239
LOADING MOTOR DRIVE
2 3 4 6 10 5
REEL DRIVE
CD1010
REEL BRAKE COM 1
TAKE UP BRAKE 2
REEL SENSOR 3
REEL SENSOR 4
REEL SENSOR 5
REEL SENSOR 6
SUPPLY BRAKE 7
LOAD MOTOR + 8
LOAD MOTOR − 9
REEL MOTOR − 10
REEL MOTOR + 11
M
M
Q1002
Q1003
DEW SENSOR AMP
IC1005
TD62064P
REEL BRAKE DRIVER
8 9 16 3
2 7 11 14
CD1009
CASSETTE MOTOR 9
CASSETTE MOTOR 8
EJECT END SW 7
EJECT END SW 6
EOT SENSOR 5
BOT SENSOR 4
EOT / BOT COM 3
F−LD END SW 2
F−LD END SW 1
RY1001
AT 13V
Q1001
MOTOR DIREC RELAY DRIVE
Q1004
Q1005
REEL SENSOR AMP
14 DEW
5 EJE/TAKE
3 LD/UL
6 SUP BRK
8 TU BRK
9 TU BRK
54 EJE END
55 TAKE END
16 EOT
17 BOT
49 RESET
33 CLOCK
34 POWER FAIL
35 DATA
36 COUNTER RVS
18 TIMER/SLEEP
21 REEL SENSOR
27 KE 3
30 AD 2
59 TAKE IN END
A. DUB IND 61
AUDIO MUTE 42
REC IND 59
PB IND 60
VIDEO MUTE 41
POWER CTRL 2
REEL VS 12
EXT PAUSE 57
REEL UL 10
REEL FF/REW 13
REEL PR 11
IC1001
OEC0007
IC1002
TD6250
MODE OUTPUT BUFFER
6 5 4 3 2 1
11 12 13 14 15 16
Q1015
REC 9V OUT
Q1014
REC 9V OUT
REC 9V
Q1013
PB 9V OUT
Q1010
PB 5V OUT
Q1012
V. MUTE 9V OUT
Q1011
REC 5V OUT
Q1007
CAMERA PAUSE
CD1001
1 —
2 AUDIO MUTE
3 AUDIO DUB
4 REC 5V
5 PB 5V
6 —
7 DELAYED REC 9V
8 REC MUTE
9 GND
10 GND
11 AUD.OUT
12 PB 9V
13 REC 9V·
14 VIDEO MUTE
15 CAMERA PAUSE
PB 9V
REC 9V
TO P.C.B. HI−FI
CX1001
DATA 1
TIMER SET SW 2
TIMER SET SW 3
GND 4
GND 5
SYSCON RESET 6
CLOCK 7
POWER FAIL 8
DATA 9
TAPE COUNT RVS 10
TIMER/SLEEP 11
REEL TURN PULSE 12
TO P.C.B. TIMER
REC MUTE
REEL VS
DUMMY SYNC ON
PB/REC
POWER ON
TO P.C.B SERVO
Q1006
POWER FAIL DET
POWER FAIL DET
REEL AFC OUT
CAPSTAN RVS
TRACKING VR
IC1004
TD62504P
REEL MODE SELECTOR
4 2 5
16 15 14 13 12 11
CX1002
1 TRACKING VR
2 GND
3 PC 12V
4 AT 12V
5 AT 5V
6 PC 5V
PC 12V
AT 12V
AT 5V
PC 5V
TO P.C.B. TIMER
AT 5V
Q1018
REEL PRIDRIVE
Q1017
NF DC AMP
Q1016
REEL ON/OFF
VR1001
TU TORQUE
Q1020
CURVE SW
Q1019
N−T CURVE SW BUFFER

SYSTEM CONTROL BLOCK DIAGRAM

34

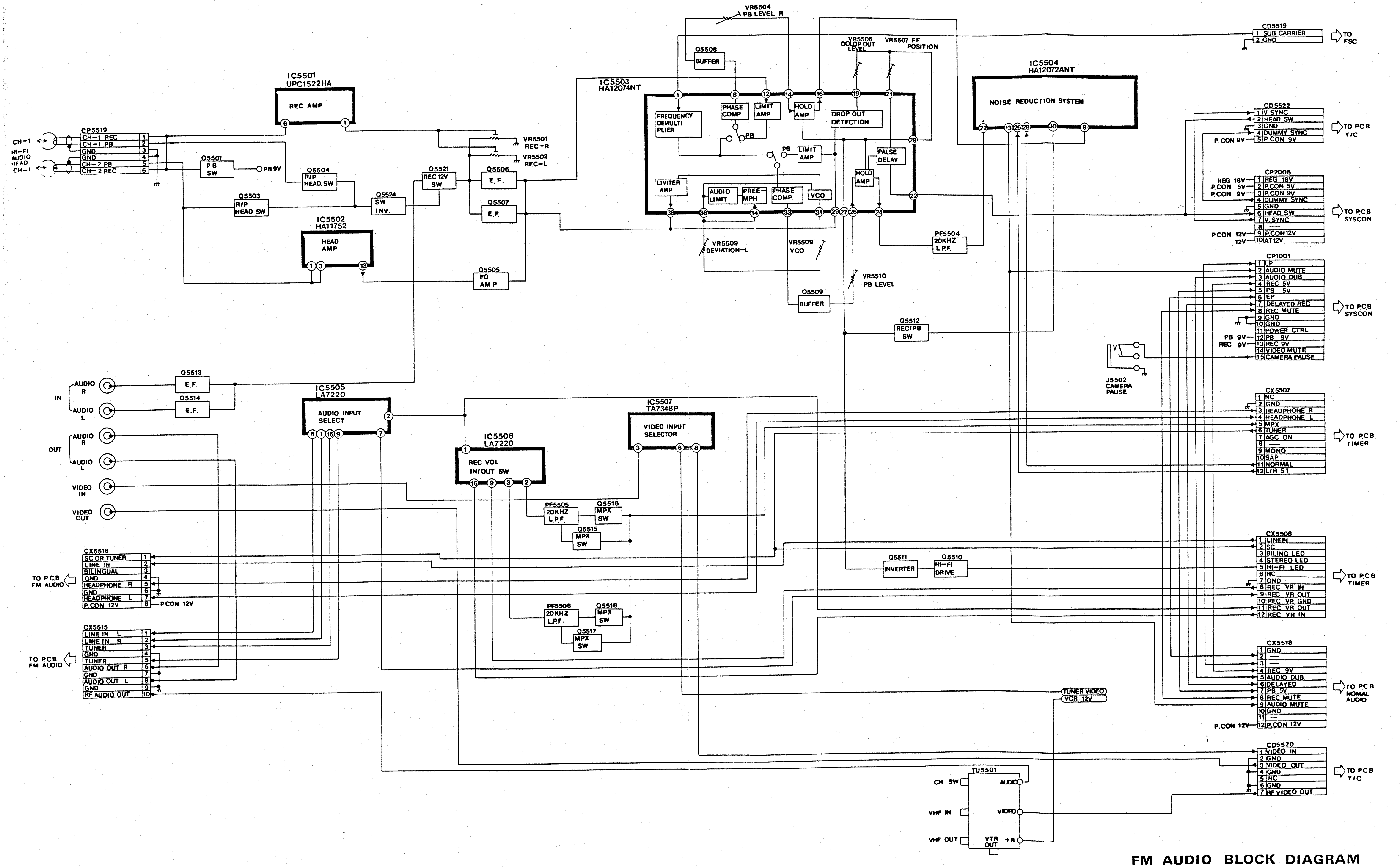
35

SERVO/SUB POWER BLOCK DIAGRAM


TO P.C.B. HI-FI
CD2005
1 FSC IN
2 GND
CD2006
1 UNREG 18V
2 PC 5V
3 PC 9V
4 DUMMY V-SYNC
5 GND
6 HEAD SW
7 V-SYNC
8 PC 12V
9 PC 12V
10 AT 12V
UNREG 18V
PC 5V
PC 9V
PC 12V
PC 12V
TO P.C.B. HI-FI
Q2003 CYLINDER PG AMP
VR2001 PG SIFT 2
PC 5V
VR2002 PG SHIFT 1
IC2001 HA11827NT
CAP AFC
PWM C.D.
DIVIDE
PB
REC
CAP APC
PB
REC
CYLINDER AFC
APC
REF COUNTER
REC CTL
CTL MM
TK MM
MM
MM
Q2004 HEAD SW INV.
2
6
9
13
11
15
16
17
4
3
42
41
39
37
38
34
29
33
27
24
23
22
IC2002 BA6305
TRACKING HEAD PB AMP
1
6
2
5
3
CD2001
1 CYLINDER FG
2 CYLINDER FG
3 AT 13V
4 CURRENT FB
5 DRIVE CTRL
6 CYLINDER PG
7 CYLINDER PG
AT 13V
CYL FG COIL
MOTOR
DM
CYL PG COIL
CP2002
1 TRACKING HEAD
2 TRACKING HEAD
A/C HEAD
REEL VS AFC
IC2004 BA6303
1
2
3
11
7
12
8
15
10
VR2008 VS SPEED
PC 9V
Q2006 DUMMY V OUTPUT
Q2005 DUMMY V DRIVE
VR2001 CYL F.R.
VR2005 TRACK FIX
Q2016 PB/REC START SW
Q2002 V-I CONVERTER
Q2001 CYL MUTE
REEL VS
REEL AFC OUT
PB/REC
TRACKING VR
DUMMY V ON
POWER ON
POWER FAIL DET
REC MUTE
CAPSTAN RVS
TO P.C.B. SYSCON
CAP FG COIL
CD2003
1 CAPSTAN FG
2 CAPSTAN FG
3 CAPSTAN MOTOR
4 CAPSTAN MOTOR
CM
IC2003 LA6324
CAP/CYL. INTERFACE AMP
14
4
3
6
7
12
CD2004
1 GND
2 PC 5V
3 HEAD SW
4 CYL ADJ
5 TRK MMV
6 CTL PB OUT
7 CTL FG AMP OUT
PC 5V
TEST TERMINAL
Q2010 CAPSTAN OFF
Q2011 NF AMP
Q2012 CAPSTAN PRIDRIVER
Q2013 CAPSTAN DRIVER
Q2014 CAPSTAN BRAKE DRIVER
Q2015 CAPSTAN BRAKE
Q2503 POWER CONTROL
CD2501
1 UN REG 18V
2 GND
3 PC 12V
4 POWER FAIL DET
5 AT 12V
6 PC 12V
7 AT 13V
8 PC 9V
9 GND
10 GND
11 BACK UP CAP
12 AC 12V
13 PC 5V OUT
14 PC 5V DRIVE
15 GND
UN REG 18V
12V
12V
13V
9V
TO P.C.B. POWER
AT 5V
Q2502 AT 5V REG
Q2501 AT 5V REG PROTECTOR
PC5V
VR2501 PC5V ADJ.
Q2504 PC 5V ERROR AMP
Q2505 PC 5V PRE DRIVE
5V
VR2010 REV FR
VR2009 CUE FR
IC2005 BU4052B
VS CYL FREERUN SEL.
14
12
6
RY2001

SERVO/SUB POWER BLOCK DIAGRAM

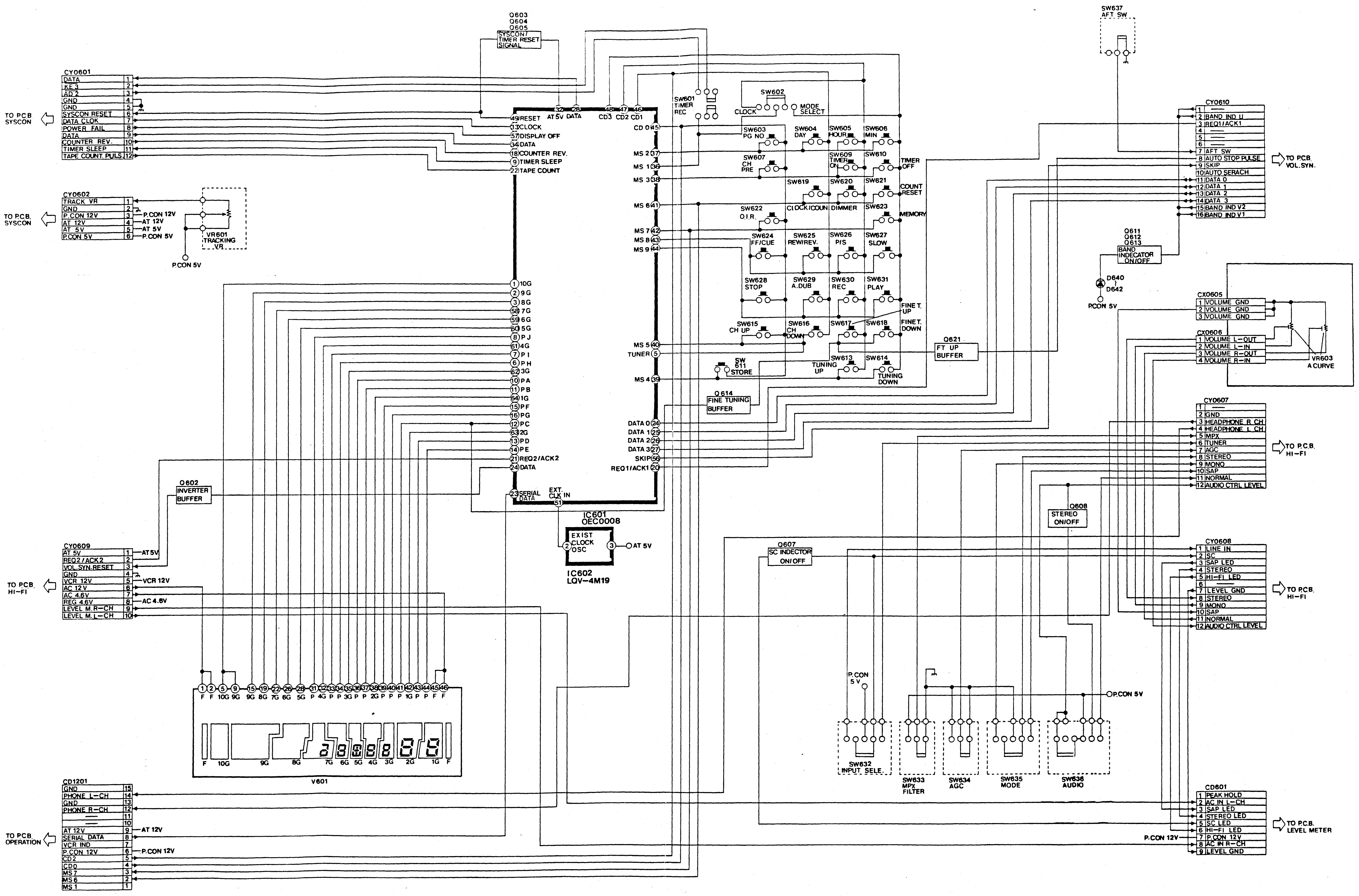
FM AUDIO BLOCK DIAGRAM



VR5504 PB LEVEL R
VR5506 DO/DP OUT LEVEL
VR5507 FF POSITION
CD5519
1 SUB CARRIER
2 GND
TO FSC
IC5501 UPC1522HA
REC AMP
IC5503 HA12074NT
Q5508 BUFFER
FREQUENCY DEMULTIPLIER
PHASE COMP
LIMIT AMP
HOLD AMP
DROP OUT DETECTION
PB
LIMIT AMP
PALSE DELAY
HOLD AMP
LIMITER AMP
AUDIO LIMIT
PREEMPH
PHASE COMP.
VCO
IC5504 HA12072ANT
NOISE REDUCTION SYSTEM
CD5522
1 V.SYNC
2 HEAD SW
3 GND
4 DUMMY SYNC
5 P.CON 9V
P.CON 9V
TO PCB Y/C
CP2006
1 REG 18V
2 P.CON 5V
3 P.CON 9V
4 DUMMY SYNC
5 GND
6 HEAD SW
7 V.SYNC
8
9 P.CON12V
10 AT12V
REG 18V
P.CON 5V
P.CON 9V
P.CON 12V
12V
TO PCB SYSCON
CH-1
HI-FI AUDIO HEAD
CH-1
CP5519
1 CH-1 REC
2 CH-1 PB
3 GND
4 GND
5 CH-2 PB
6 CH-2 REC
Q5501 PB SW
PB 9V
Q5504 R/P HEAD SW
Q5503 R/P HEAD SW
Q5524 SW INV.
Q5521 REC 12V SW
Q5506 E.F.
Q5507 E.F.
VR5501 REC-R
VR5502 REC-L
IC5502 HA11752
HEAD AMP
Q5505 EQ AMP
VR5509 DEVIATION-L
VR5509 VCO
VR5510 PB LEVEL
Q5509 BUFFER
PF5504 20KHZ L.P.F.
Q5512 REC/PB SW
CP1001
1 LP
2 AUDIO MUTE
3 AUDIO DUB
4 REC 5V
5 PB 5V
6 EP
7 DELAYED REC
8 REC MUTE
9 GND
10 GND
11 POWER CTRL
12 PB 9V
13 REC 9V
14 VIDEO MUTE
15 CAMERA PAUSE
PB 9V
REC 9V
TO PCB SYSCON
J5502 CAMERA PAUSE
IN
AUDIO R
AUDIO L
OUT
AUDIO R
AUDIO L
VIDEO IN
VIDEO OUT
Q5513 E.F.
Q5514 E.F.
IC5505 LA7220
AUDIO INPUT SELECT
IC5507 TA7348P
VIDEO INPUT SELECTOR
IC5506 LA7220
REC VOL IN/OUT SW
PF5505 20KHZ L.P.F.
Q5516 MPX SW
Q5515 MPX SW
PF5506 20KHZ L.P.F.
Q5518 MPX SW
Q5517 MPX SW
CX5507
1 NC
2 GND
3 HEADPHONE R
4 HEADPHONE L
5 MPX
6 TUNER
7 AGC ON
8 —
9 MONO
10 SAP
11 NORMAL
12 L/R ST
TO PCB TIMER
CX5516
1 SC OR TUNER
2 LINE IN
3 BILINGUAL
4 GND
5 HEADPHONE R
6 GND
7 HEADPHONE L
8 P.CON 12V
P.CON 12V
TO P.C.B. FM AUDIO
Q5511 INVERTER
Q5510 HI-FI DRIVE
CX5508
1 LINE IN
2 SC
3 BILING LED
4 STEREO LED
5 HI-FI LED
6 NC
7 GND
8 REC VR IN
9 REC VR OUT
10 REC VR GND
11 REC VR OUT
12 REC VR IN
TO PCB TIMER
CX5515
1 LINE IN L
2 LINE IN R
3 TUNER
4 GND
5 TUNER
6 AUDIO OUT R
7 GND
8 AUDIO OUT L
9 GND
10 RF AUDIO OUT
TO P.C.B. FM AUDIO
CX5518
1 GND
2 —
3 —
4 REC 9V
5 AUDIO DUB
6 DELAYED
7 PB 5V
8 REC MUTE
9 AUDIO MUTE
10 GND
11 —
12 P.CON 12V
P.CON 12V
TO PCB NOMAL AUDIO
TUNER VIDEO
VCR 12V
CD5520
1 VIDEO IN
2 GND
3 VIDEO OUT
4 GND
5 NC
6 GND
7 RF VIDEO OUT
TO PCB Y/C
TU5501
CH SW
AUDIO
VHF IN
VIDEO
VHF OUT
VTR OUT
+B

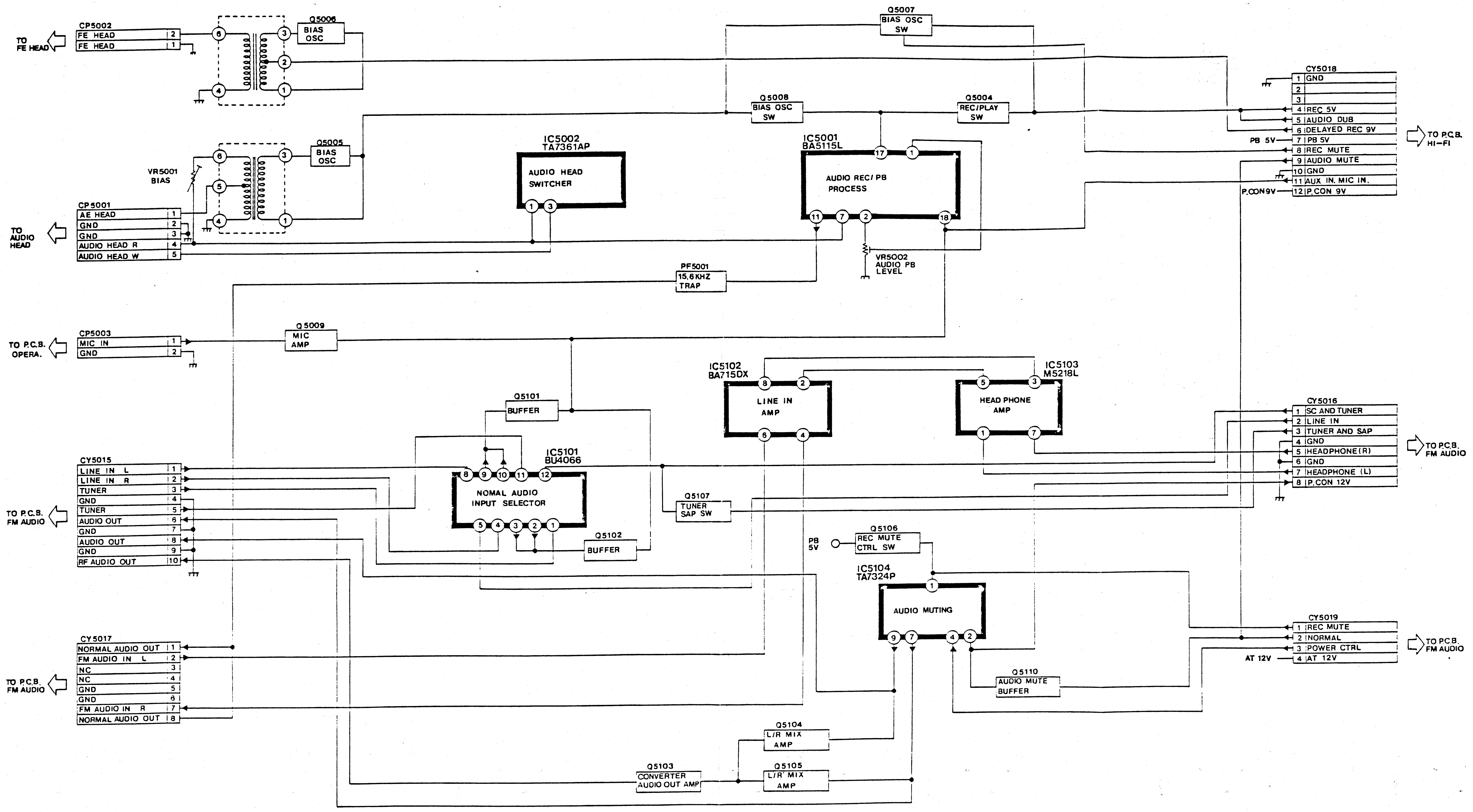
FM AUDIO BLOCK DIAGRAM

TIMER BLOCK DIAGRAM


Q603
Q604
Q605
SYSCON/TIMER RESET SIGNAL
CY0601
1 DATA
2 KE 1
3 AD 2
4 GND
5 GND
6 SYSCON RESET
7 DATA CLOK
8 POWER FAIL
9 DATA
10 COUNTER REV.
11 TIMER SLEEP
12 TAPE COUNT. PULS.
TO P.C.B SYSCON
CY0602
1 TRACK VR
2 GND
3 P.CON 12V
4 AT 12V
5 AT 5V
6 P.CON 5V
TO P.C.B. SYSCON
P.CON 12V
AT 12V
AT 5V
P.CON 5V
VR601 TRACKING VR
P.CON 5V
49 RESET
33 CLOCK
57 DISPLAY OFF
34 DATA
18 COUNTER REV.
9 TIMER SLEEP
22 TAPE COUNT
32 AT 5V
28 DATA
48 CD3
47 CD2
46 CD1
CD 0 45
MS 2 37
MS 1 36
MS 3 38
MS 6 41
MS 7 42
MS 8 43
MS 9 44
MS 5 40
TUNER 5
MS 4 39
DATA 0 24
DATA 1 25
DATA 2 26
DATA 3 27
SKIP 56
REQ1/ACK1 20
1 10G
2 9G
3 8G
58 7G
59 6G
60 5G
8 PJ
61 4G
7 PI
6 PH
62 3G
10 PA
11 PB
64 1G
15 PF
16 PG
12 PC
63 2G
13 PD
14 PE
21 REQ2/ACK2
24 DATA
23 SERIAL DATA
EXT. CLK IN 51
IC601 OEC0008
EXIST CLOCK OSC
2
3
AT 5V
IC602 LQV-4M19
Q602 INVERTER BUFFER
SW601 TIMER REC
SW602
CLOCK
MODE SELECT
SW603 PG NO
SW604 DAY
SW605 HOUR
SW606 MIN
SW607 CH PRE
SW609 TIMER ON
SW610
TIMER OFF
SW619
SW620
SW621
COUNT RESET
SW622 O.I.R.
CLOCK/COUN
DIMMER
SW623
MEMORY
SW624 FF/CUE
SW625 REW/REV.
SW626 P/S
SW627 SLOW
SW628 STOP
SW629 A.DUB
SW630 REC
SW631 PLAY
FINE T. UP
FINE T. DOWN
SW615 CH UP
SW616 CH DOWN
SW617
SW618
SW 611 STORE
SW613 TUNING UP
SW614 TUNING DOWN
Q614 FINE TUNING BUFFER
Q621 FT UP BUFFER
SW637 AFT SW
CY0610
1 —
2 BAND IND U
3 REQ1/ACK1
4 —
5 —
6 —
7 AFT SW
8 AUTO STOP PULSE
9 SKIP
10 AUTO SERACH
11 DATA 0
12 DATA 1
13 DATA 2
14 DATA 3
15 BAND IND V2
16 BAND IND V1
TO P.C.B. VOL.SYN.
Q611
Q612
Q613
BAND INDECATOR ON/OFF
D640
D642
P.CON 5V
CX0605
1 VOLUME GND
2 VOLUME GND
3 VOLUME GND
CX0606
1 VOLUME L-OUT
2 VOLUME L-IN
3 VOLUME R-OUT
4 VOLUME R-IN
VR603 A CURVE
CY0607
1 —
2 GND
3 HEADPHONE R CH
4 HEADPHONE L CH
5 MPX
6 TUNER
7 AGC
8 STEREO
9 MONO
10 SAP
11 NORMAL
12 AUDIO CTRL LEVEL
TO P.C.B. HI-FI
Q608 STEREO ON/OFF
Q607 SC INDECTOR ON/OFF
CY0608
1 LINE IN
2 SC
3 SAP LED
4 STEREO
5 HI-FI LED
6 —
7 LEVEL GND
8 STEREO
9 MONO
10 SAP
11 NORMAL
12 AUDIO CTRL LEVEL
TO P.C.B. HI-FI
CY0609
1 AT 5V
2 REQ2/ACK2
3 VOL.SYN.RESET
4 GND
5 VCR 12V
6 AC 12V
7 AC 4.6V
8 REG 4.6V
9 LEVEL M.R-CH
10 LEVEL M.L-CH
TO P.C.B. HI-FI
AT 5V
VCR 12V
AC 4.6V
1 2 5 9 15 19 22 26 28 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
F F 10G 9G 9G 8G 7G 6G 5G P 4G P P 3G P P 2G P P P 1G P P F F
F 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G F
V601
P.CON 5V
P.CON 5V
SW632 INPUT SELE.
SW633 MPX FILTER
SW634 AGC
SW635 MODE
SW636 AUDIO
CD1201
15 GND
14 PHONE L-CH
13 GND
12 PHONE R-CH
11 —
10 —
9 AT 12V
8 SERIAL DATA
7 VCR IND
6 P.CON 12V
5 CD2
4 CD0
3 MS 7
2 MS 6
1 MS 1
TO P.C.B. OPERATION
AT 12V
P.CON 12V
CD601
1 PEAK HOLD
2 AC IN L-CH
3 SAP LED
4 STEREO LED
5 SC LED
6 HI-FI LED
7 P.CON 12V
8 AC IN R-CH
9 LEVEL GND
P.CON 12V
TO P.C.B. LEVEL METER

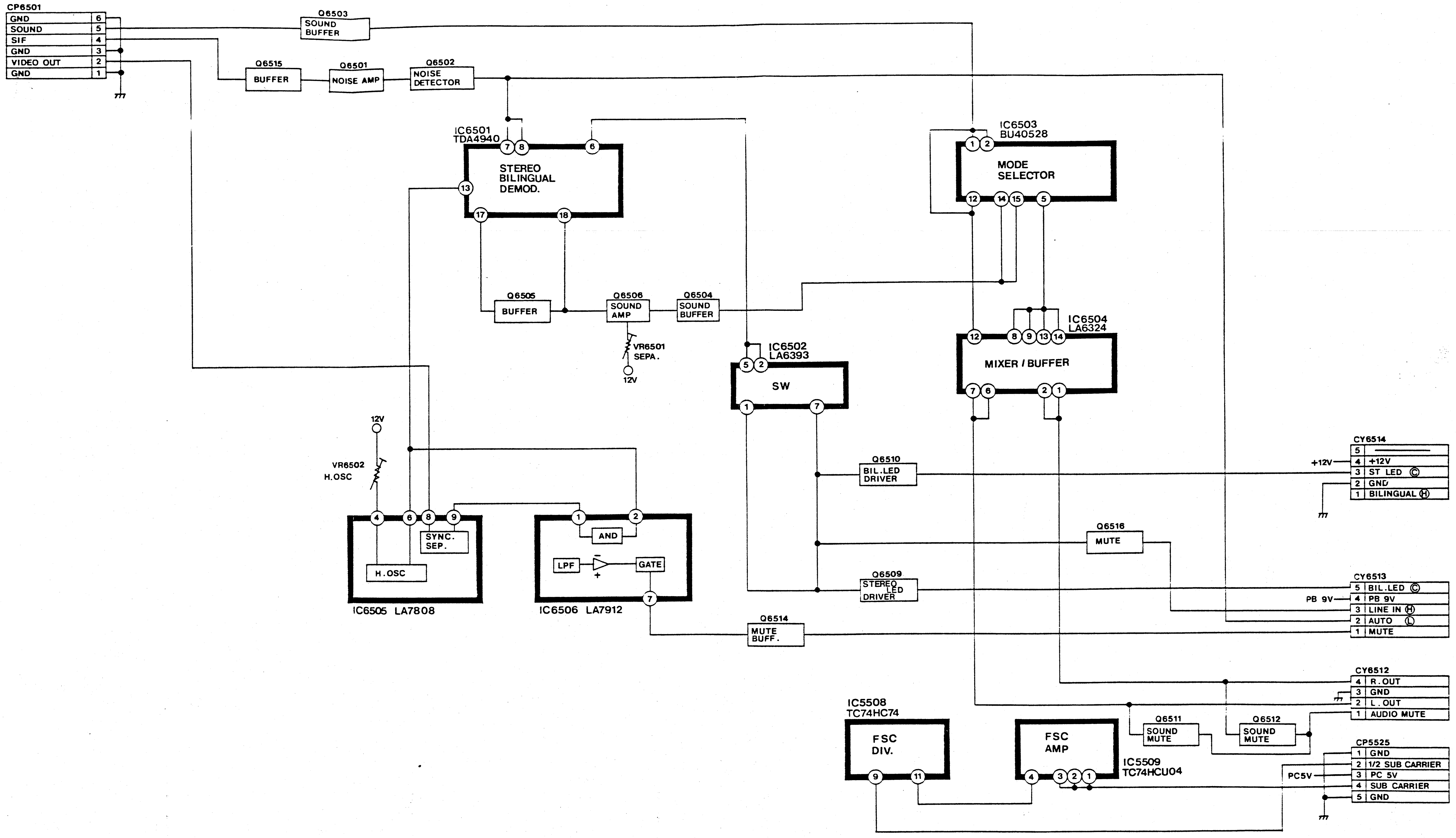
TIMER BLOCK DIAGRAM

NORMAL AUDIO BLOCK DIAGRAM


CP5002
FE HEAD 2
FE HEAD 1
TO FE HEAD
Q5006 BIAS OSC
Q5007 BIAS OSC SW
Q5008 BIAS OSC SW
Q5004 REC/PLAY SW
Q5005 BIAS OSC
VR5001 BIAS
CP5001
AE HEAD 1
GND 2
GND 3
AUDIO HEAD R 4
AUDIO HEAD W 5
TO AUDIO HEAD
IC5002 TA7361AP
AUDIO HEAD SWITCHER
IC5001 BA5115L
AUDIO REC/PB PROCESS
VR5002 AUDIO PB LEVEL
PF5001 15.6KHZ TRAP
CP5003
MIC IN 1
GND 2
TO P.C.B. OPERA.
Q5009 MIC AMP
CY5018
1 GND
2
3
4 REC 5V
5 AUDIO DUB
6 DELAYED REC 9V
7 PB 5V
8 REC MUTE
9 AUDIO MUTE
10 GND
11 AUX IN. MIC IN.
12 P.CON 9V
PB 5V
P.CON9V
TO P.C.B. HI-FI
IC5102 BA715DX
LINE IN AMP
IC5103 M5218L
HEAD PHONE AMP
Q5101 BUFFER
IC5101 BU4066
NOMAL AUDIO INPUT SELECTOR
Q5102 BUFFER
Q5107 TUNER SAP SW
CY5015
LINE IN L 1
LINE IN R 2
TUNER 3
GND 4
TUNER 5
AUDIO OUT 6
GND 7
AUDIO OUT 8
GND 9
RF AUDIO OUT 10
TO P.C.B. FM AUDIO
CY5016
1 SC AND TUNER
2 LINE IN
3 TUNER AND SAP
4 GND
5 HEADPHONE (R)
6 GND
7 HEADPHONE (L)
8 P.CON 12V
TO P.C.B. FM AUDIO
Q5106 REC MUTE CTRL SW
PB 5V
IC5104 TA7324P
AUDIO MUTING
Q5110 AUDIO MUTE BUFFER
CY5019
1 REC MUTE
2 NORMAL
3 POWER CTRL
4 AT 12V
AT 12V
TO P.C.B. FM AUDIO
CY5017
NORMAL AUDIO OUT 1
FM AUDIO IN L 2
NC 3
NC 4
GND 5
GND 6
FM AUDIO IN R 7
NORMAL AUDIO OUT 8
TO P.C.B. FM AUDIO
Q5104 L/R MIX AMP
Q5103 CONVERTER AUDIO OUT AMP
Q5105 L/R MIX AMP

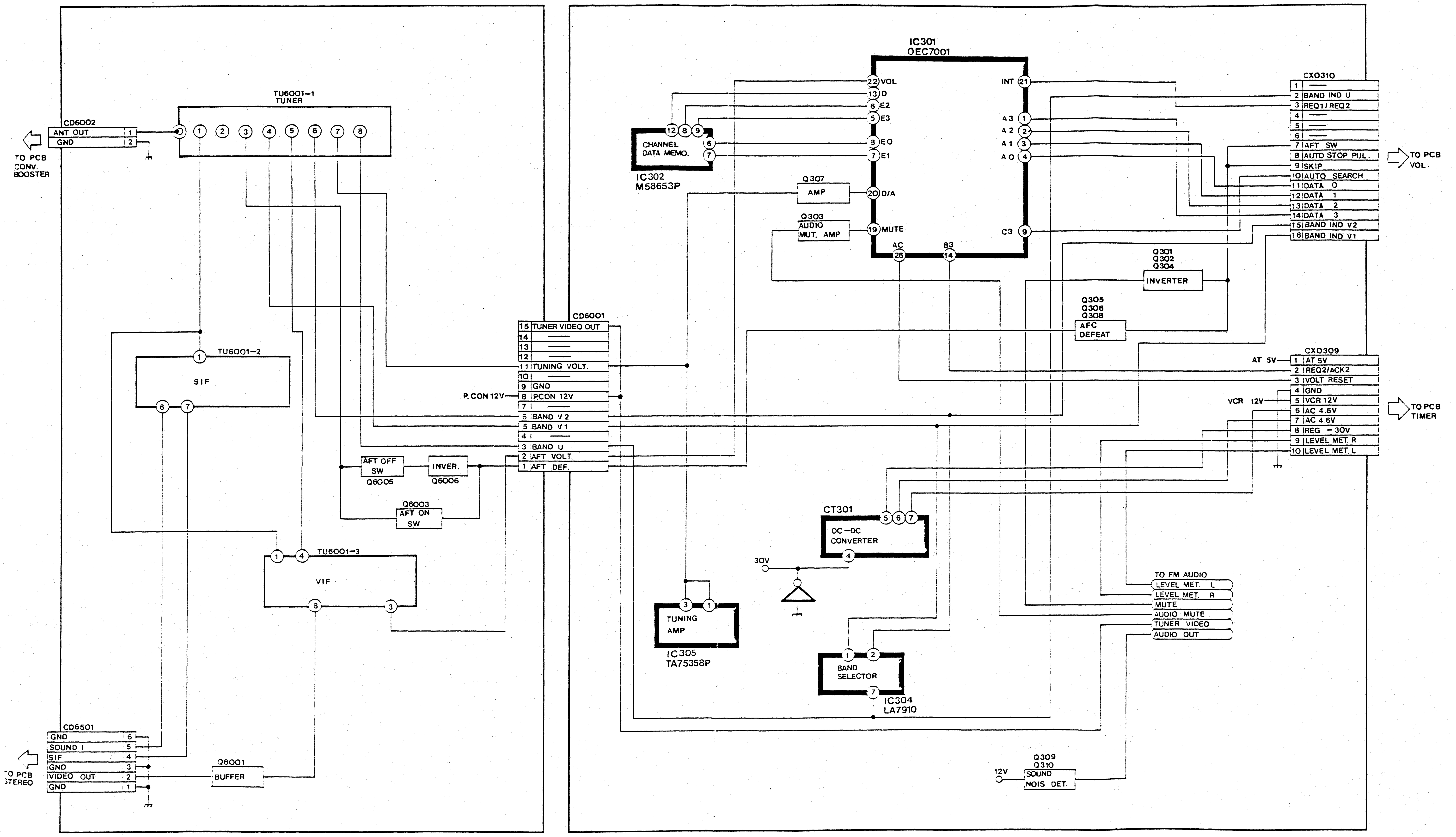
NORMAL AUDIO BLOCK DIAGRAM

STEREO DEMODULATOR BLOCK DIAGRAM

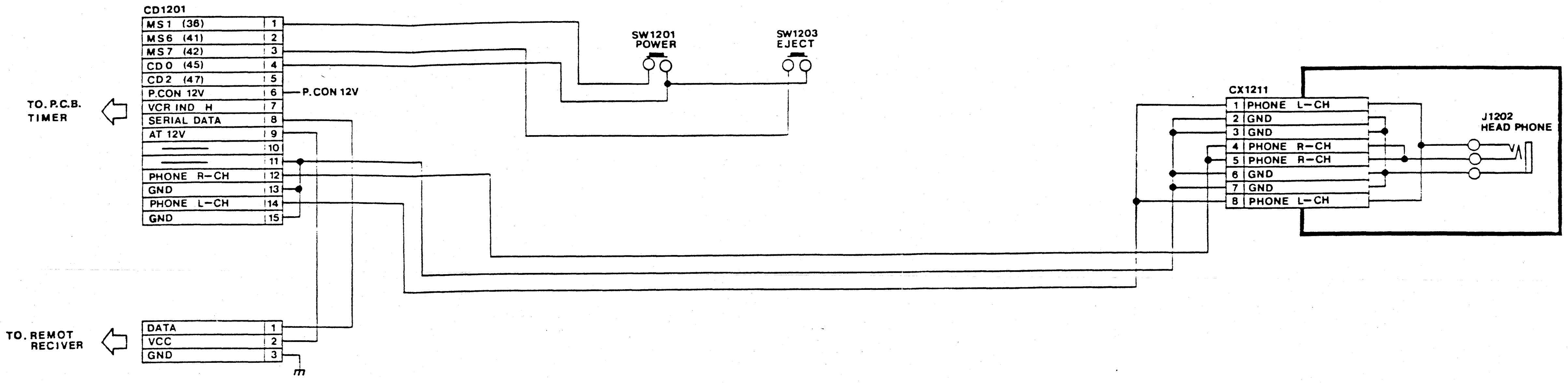

CP6501
GND 6
SOUND 5
SIF 4
GND 3
VIDEO OUT 2
GND 1
Q6503 SOUND BUFFER
Q6515 BUFFER
Q6501 NOISE AMP
Q6502 NOISE DETECTOR
IC6501 TDA4940
STEREO BILINGUAL DEMOD.
IC6503 BU40528
MODE SELECTOR
Q6505 BUFFER
Q6506 SOUND AMP
Q6504 SOUND BUFFER
VR6501 SEPA.
12V
IC6502 LA6393
SW
IC6504 LA6324
MIXER / BUFFER
VR6502 H.OSC
12V
H.OSC
SYNC. SEP.
IC6505 LA7808
AND
LPF
GATE
IC6506 LA7912
Q6510 BIL.LED DRIVER
Q6516 MUTE
Q6509 STEREO LED DRIVER
Q6514 MUTE BUFF.
CY6514
5
+12V 4 +12V
3 ST LED ©
2 GND
1 BILINGUAL Ⓗ
CY6513
5 BIL.LED ©
PB 9V 4 PB 9V
3 LINE IN Ⓗ
2 AUTO Ⓛ
1 MUTE
CY6512
4 R.OUT
3 GND
2 L.OUT
1 AUDIO MUTE
IC5508 TC74HC74
FSC DIV.
FSC AMP
IC5509 TC74HCU04
Q6511 SOUND MUTE
Q6512 SOUND MUTE
CP5525
1 GND
2 1/2 SUB CARRIER
PC5V 3 PC 5V
4 SUB CARRIER
5 GND

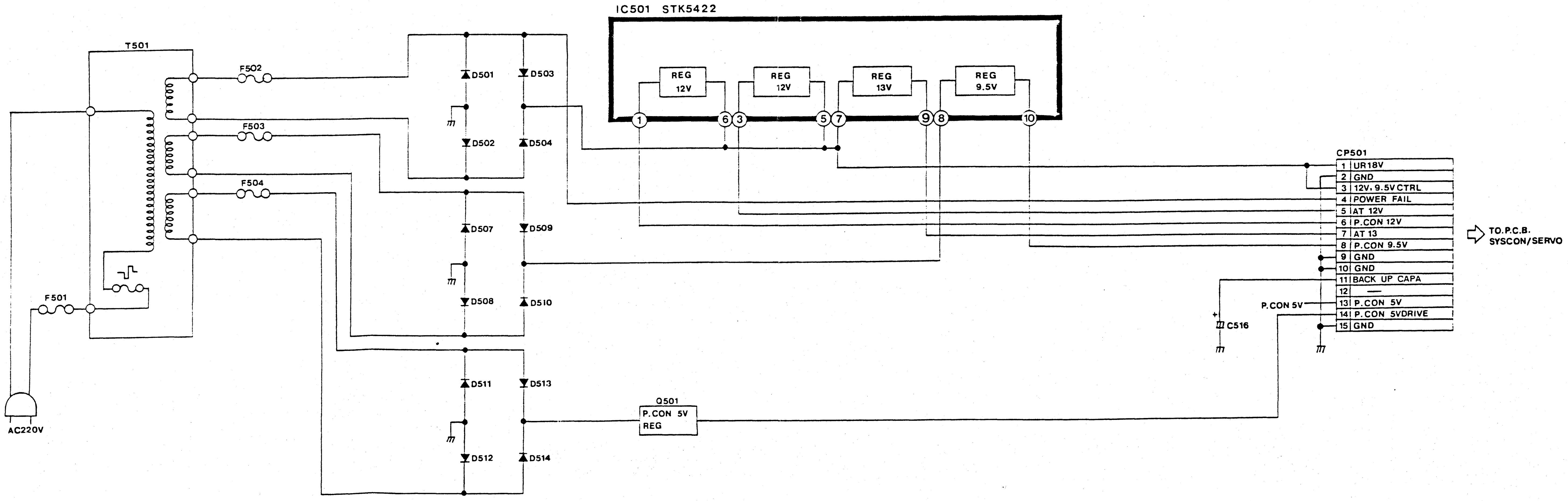
STEREO DEMODULATOR BLOCK DIAGRAM

VOL. SYNTH/ TUNER BLOCK DIAGRAM


CD6002
ANT OUT 1
GND 2
TO PCB CONV. BOOSTER
TU6001-1 TUNER
TU6001-2
SIF
TU6001-3
VIF
CD6001
15 TUNER VIDEO OUT
14
13
12
11 TUNING VOLT.
10
9 GND
8 PCON 12V
7
6 BAND V 2
5 BAND V 1
4
3 BAND U
2 AFT VOLT.
1 AFT DEF.
P. CON 12V
AFT OFF SW
Q6005
INVER.
Q6006
Q6003
AFT ON SW
CD6501
GND 6
SOUND I 5
SIF 4
GND 3
VIDEO OUT 2
GND 1
TO PCB STEREO
Q6001
BUFFER
IC301
OEC7001
22 VOL
13 D
6 E2
5 E3
8 EO
7 E1
20 D/A
19 MUTE
INT 21
A 3 1
A 2 2
A 1 3
A O 4
C3 9
AC 26
B3 14
CHANNEL DATA MEMO.
IC302
M58653P
Q 307
AMP
Q303
AUDIO MUT. AMP
CX0310
1 —
2 BAND IND U
3 REQ1 / REQ2
4 —
5 —
6 —
7 AFT SW
8 AUTO STOP PUL.
9 SKIP
10 AUTO SEARCH
11 DATA 0
12 DATA 1
13 DATA 2
14 DATA 3
15 BAND IND V2
16 BAND IND V1
TO PCB VOL.
Q301
Q302
Q304
INVERTER
Q305
Q306
Q308
AFC DEFEAT
CX0309
AT 5V
1 AT 5V
2 REQ2/ACK2
3 VOLT RESET
4 GND
VCR 12V
5 VCR 12V
6 AC 4.6V
7 AC 4.6V
8 REG -30V
9 LEVEL MET R
10 LEVEL MET L
TO PCB TIMER
CT301
DC-DC CONVERTER
30V
TUNING AMP
IC305
TA75358P
BAND SELECTOR
IC304
LA7910
TO FM AUDIO
LEVEL MET. L
LEVEL MET. R
MUTE
AUDIO MUTE
TUNER VIDEO
AUDIO OUT
12V
Q309
Q310
SOUND NOIS DET.

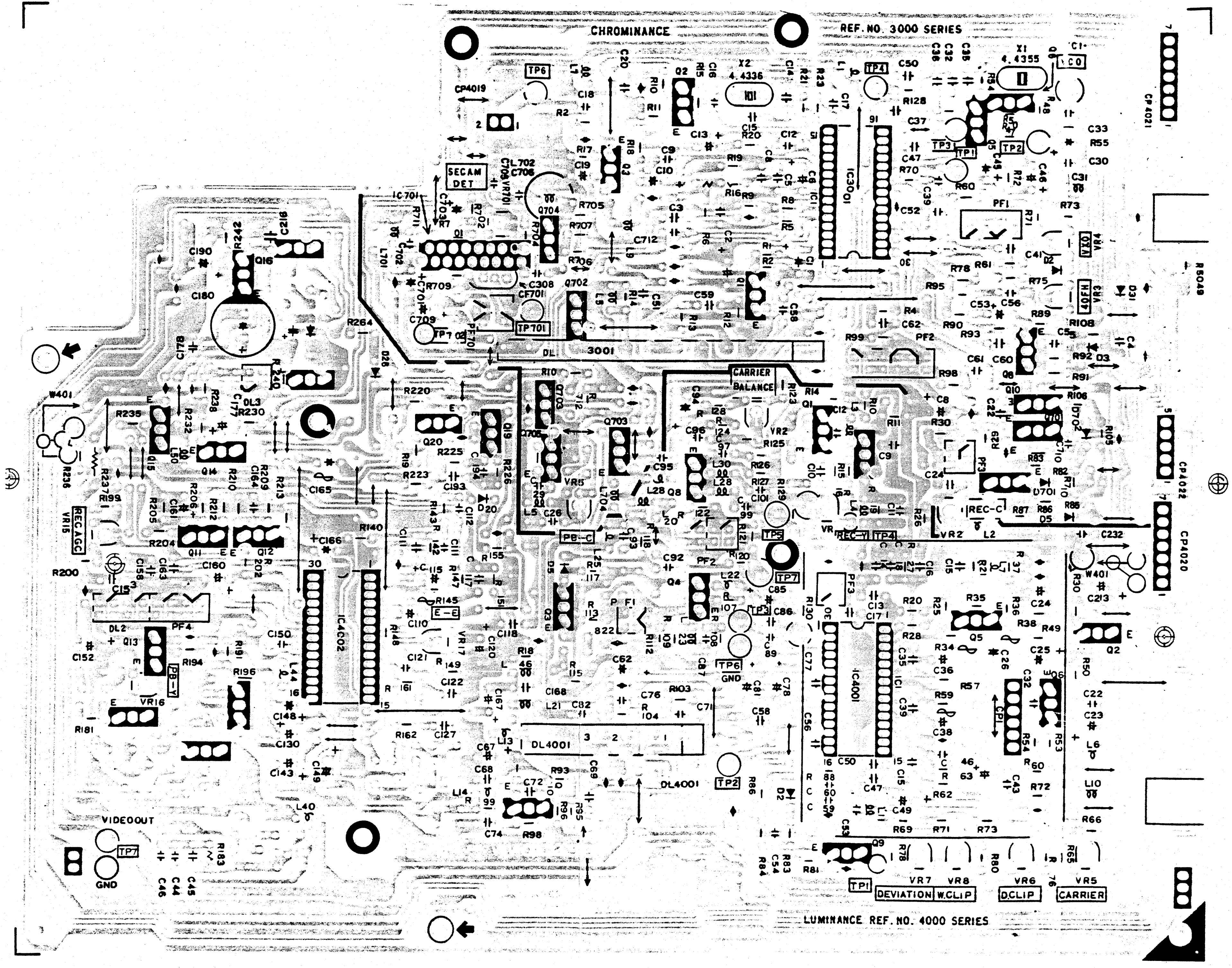
OPERATION / POWER SUPPLY BLOCK DIAGRAM


CD1201
MS1 (36) 1
MS6 (41) 2
MS7 (42) 3
CD0 (45) 4
CD2 (47) 5
P.CON 12V 6
VCR IND H 7
SERIAL DATA 8
AT 12V 9
10
11
PHONE R-CH 12
GND 13
PHONE L-CH 14
GND 15
P.CON 12V
TO. P.C.B. TIMER
SW1201 POWER
SW1203 EJECT
CX1211
1 PHONE L-CH
2 GND
3 GND
4 PHONE R-CH
5 PHONE R-CH
6 GND
7 GND
8 PHONE L-CH
J1202 HEAD PHONE
TO. REMOT RECIVER
DATA 1
VCC 2
GND 3


IC501 STK5422
REG 12V
REG 12V
REG 13V
REG 9.5V
1
6
3
5
7
9
8
10
T501
F502
F503
F504
F501
AC220V
D501
D502
D503
D504
D507
D508
D509
D510
D511
D512
D513
D514
Q501
P.CON 5V REG
CP501
1 UR18V
2 GND
3 12V, 9.5V CTRL
4 POWER FAIL
5 AT 12V
6 P.CON 12V
7 AT 13
8 P.CON 9.5V
9 GND
10 GND
11 BACK UP CAPA
12 —
13 P.CON 5V
14 P.CON 5VDRIVE
15 GND
P.CON 5V
C516
TO.P.C.B. SYSCON/SERVO

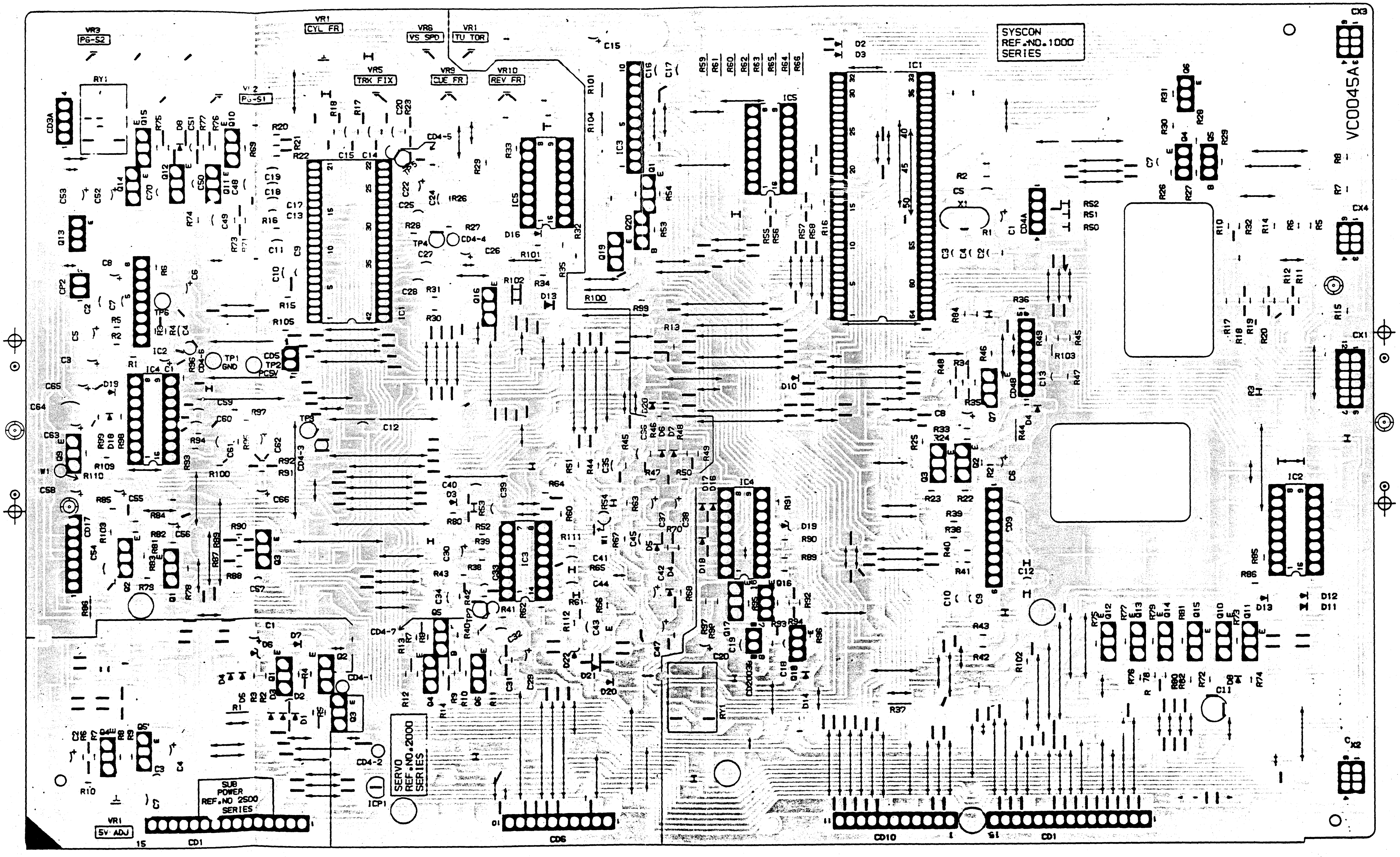
OPERATION / POWER SUPPLY BLOCK DIAGRAM

Y/C P.C. BOARD

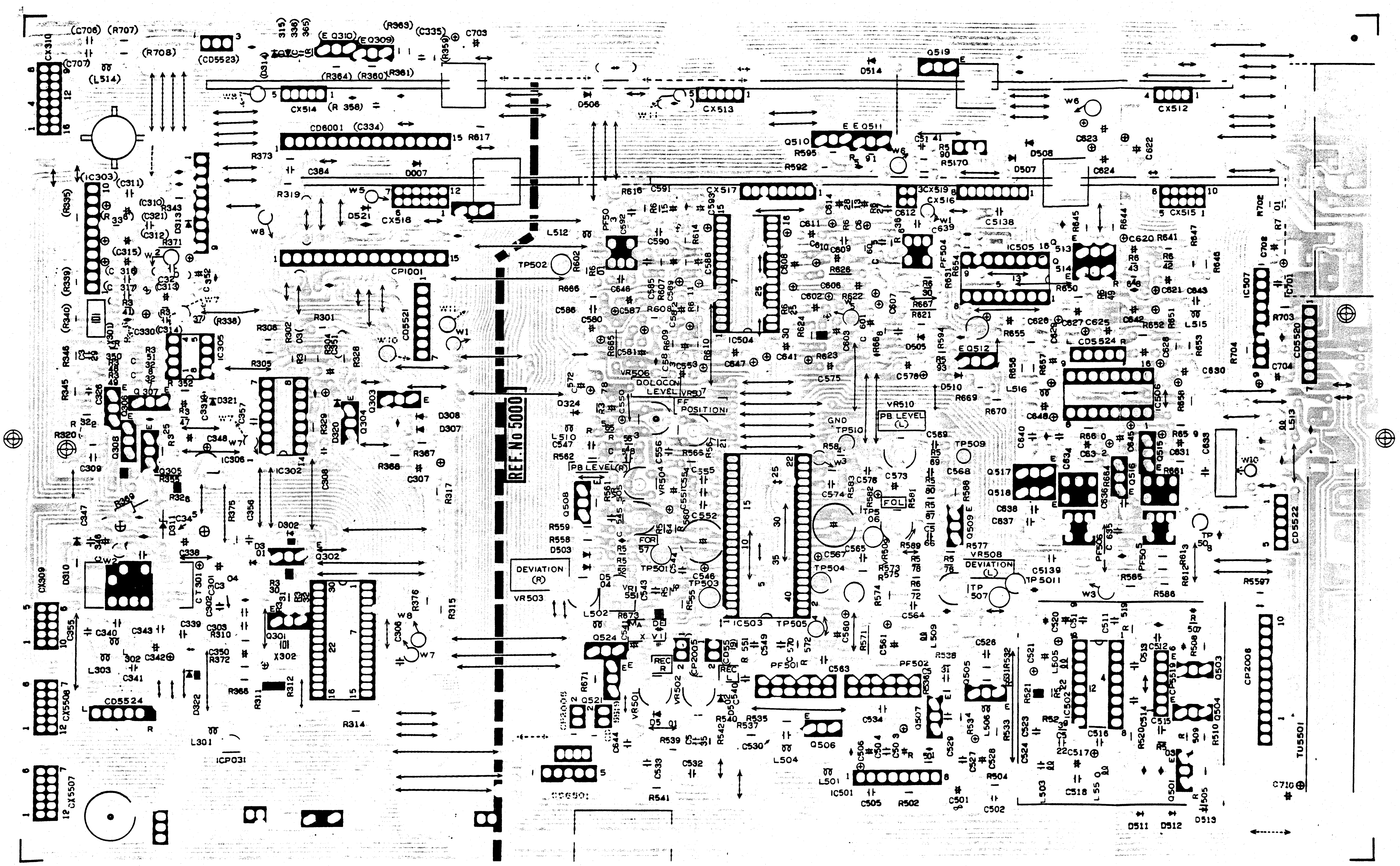

CHROMINANCE
REF. NO. 3000 SERIES
LUMINANCE REF. NO. 4000 SERIES
SECAM DET
CARRIER BALANCE
REC AGC
VR15
VIDEO OUT
GND
TP7
DEVIATION
W.CLIP
D.CLIP
CARRIER
VR7
VR8
VR6
VR5
IC4002
IC4001
IC3001
DL4001
CP4019
CP4020
CP4021
CP4022
R8049
PB-C
PB-Y
REC-C
REC-Y
E-E
X1 4.4355
X2 4.4336
W401
TP1
TP2
TP3
TP4
TP5
TP6
TP701

Y/C P.C. BOARD

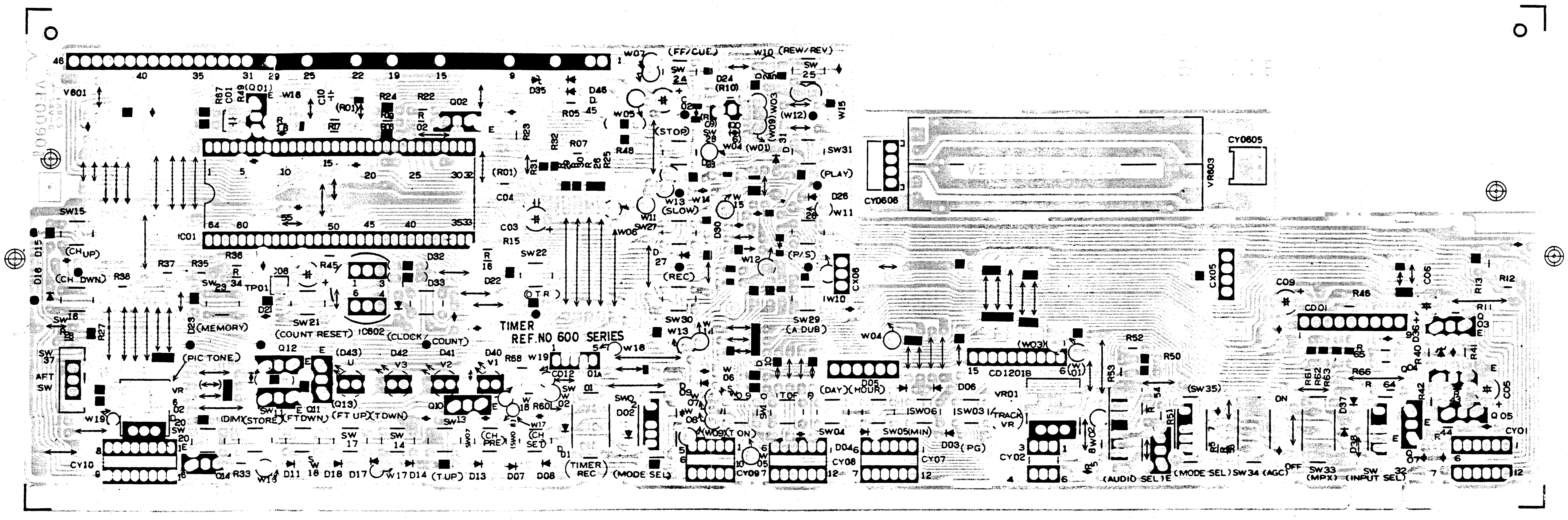
SYSTEM CONTROL SERVO P.C. BOARD


SYSCON
REF.NO.1000
SERIES
SERVO
REF.NO.2000
SERIES
SUB
POWER
REF.NO 2600
SERIES
VC0045A
VR3 PG-S2
VR2 PG-S1
VR1 CYL FR
VR5 TRK FIX
VR6 VS SPD
VR5 CUE FR
VR1 TU TOR
VR10 REV FR
VR1 5V ADJ
IC1
IC2
IC3
IC4
IC5
RY1
CD1
CD6
CD10
CX1
CX3
CX4
ICP1
TP1 GND
TP2 PC5V

HI-FI P.C. BOARD

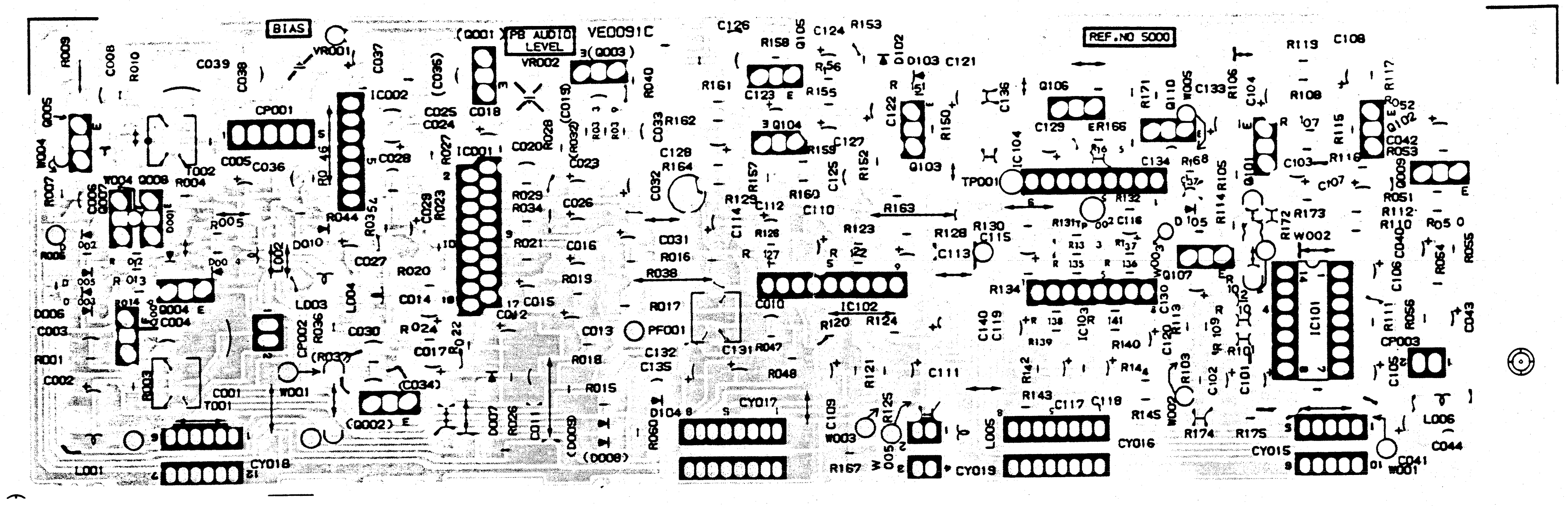

REF.No 5000
CX510
CX514
CX513
CX512
CX518
CX517
CX516
CX515
CX509
CX5508
CX5507
CD6001
CP1001
CD5523
CD5521
CD5524
CD5520
CD5522
CP2006
TU5501
IC303
IC305
IC306
IC302
IC503
IC504
IC505
IC501
TP502
TP503
TP504
TP505
TP509
TP510
TP5011
DOLOCON LEVEL
VR506
FF POSITION
PB LEVEL (R)
PB LEVEL (L)
VR510
GND
FOR
FOL
DEVIATION (R)
VR503
DEVIATION (L)
VR508
REC R
REC L
PF501
PF502
Q301
Q302
Q303
Q304
Q305
Q306
Q307
Q308
Q309
Q310
Q501
Q503
Q504
Q505
Q506
Q507
Q508
Q509
Q510
Q511
Q512
Q515
Q516
Q517
Q518
Q519
Q521
Q524
X301
X302

TIMER P.C. BOARD

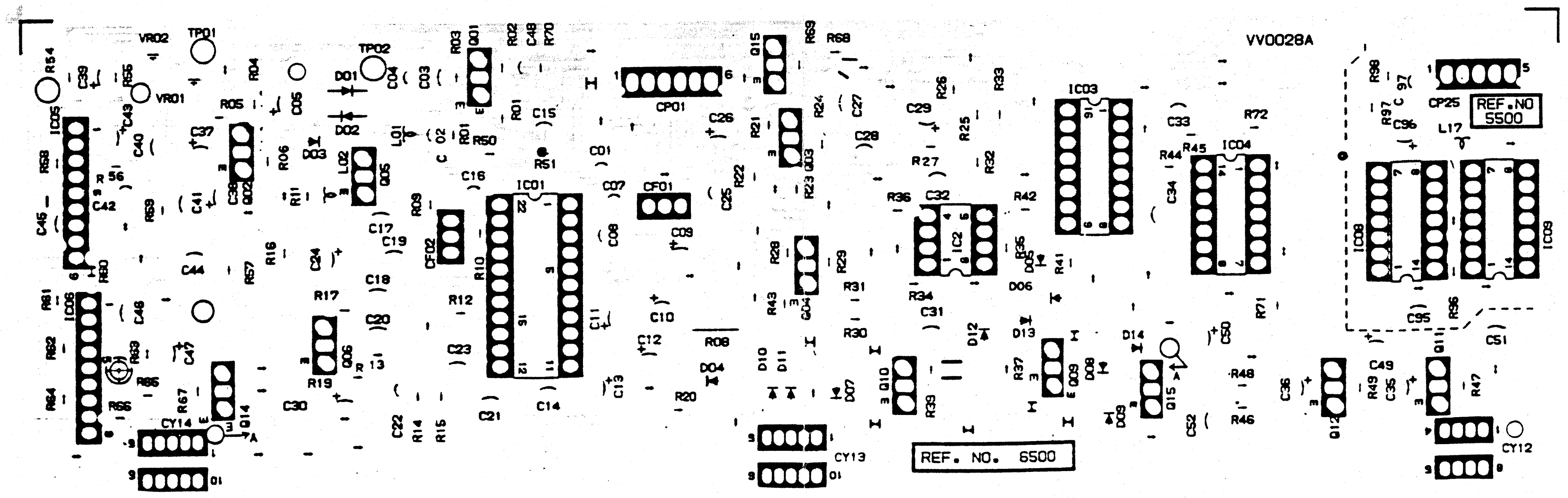

TIMER
REF.NO 600 SERIES
IC01
IC602
CD01
CD1201B
VR603
CY0605
CY0606
CX05
CX06
CY01
CY02
CY07
CY08
CY09
CY10
V601
TP01
(FF/CUE)
(REW/REV)
(STOP)
(PLAY)
(SLOW)
(P/S)
(REC)
(A.DUB)
(CH UP)
(CH DWN)
(MEMORY)
(PIC TONE)
(COUNT RESET)
(CLOCK)
(COUNT)
(DIM)
(STORE)
(FT DWN)
(FT UP)
(T DWN)
(T UP)
(CH PRE)
(CH SET)
(TIMER REC)
(MODE SEL)
(DAY)
(HOUR)
SW05(MIN)
(PG)
(TRACK VR)
(AUDIO SEL)
(MODE SEL)
SW34 (AGC)
SW33 (MPX)
(INPUT SEL)
AFT SW

TIMER P.C. BOARD

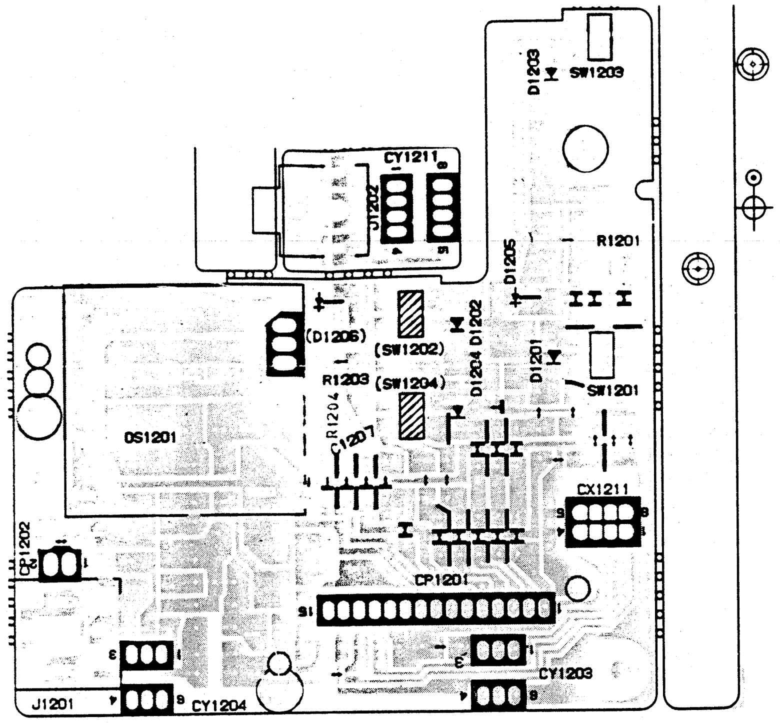
NORMAL AUDIO P.C. BOARD


BIAS
PB AUDIO LEVEL
VR002
VE0091C
REF.NO 5000

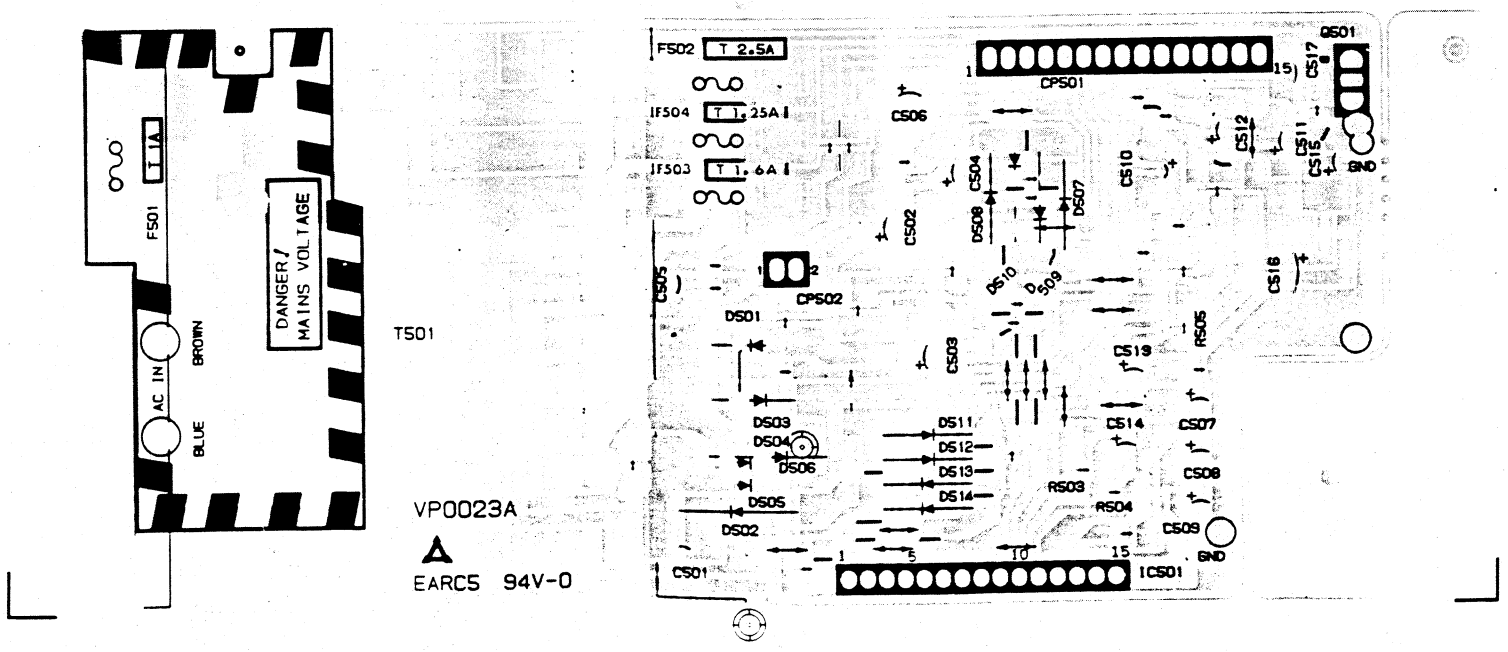
STEREO DEMODULATOR P.C. BOARD


VV0028A
REF.NO 5500
REF. NO. 6500

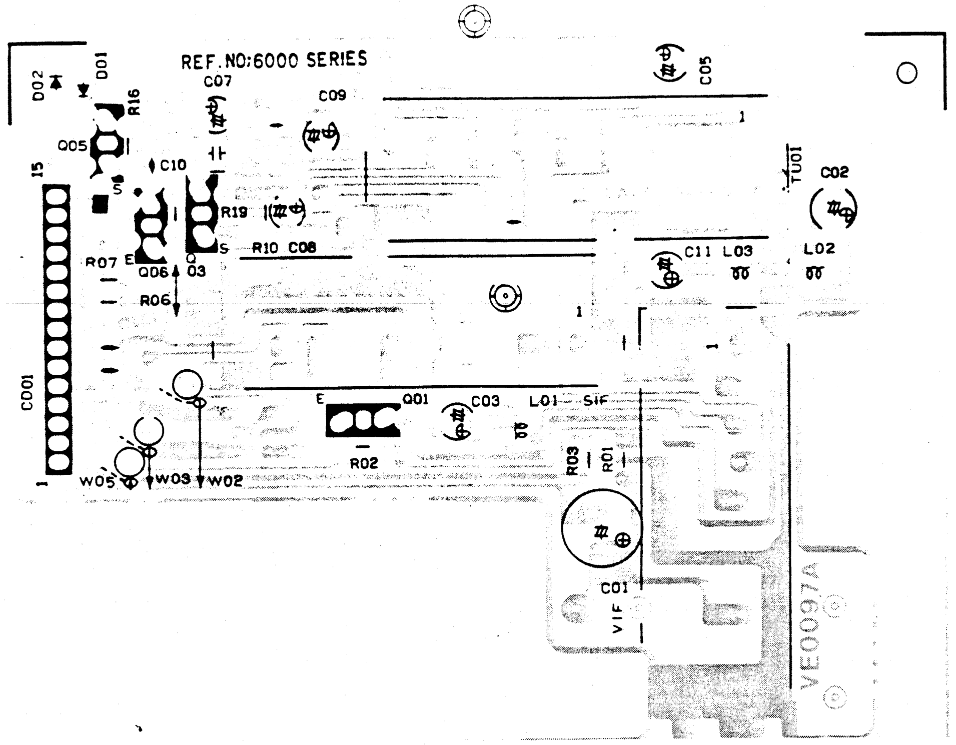
OPERATION P.C. BOARD


D1203
SW1203
CY1211
J1202
R1201
D1205
(D1206)
(SW1202)
D1202
D1204
R1203
(SW1204)
D1201
SW1201
R1204
C1207
DS1201
CX1211
CP1201
CY1203
J1201
CY1204

POWER SUPPLY P.C. BOARD


T 1A
F501
DANGER/ MAINS VOLTAGE
AC IN
BROWN
BLUE
T501
VP0023A
EARC5 94V-0
F502
T 2.5A
F504
T 1.25A
F503
T 1.6A
CP501
Q501
C517
C506
C504
D507
D508
C510
C512
C511
C515
GND
C502
D510
D509
C516
C505
CP502
D501
C503
C513
R505
D503
D504
D506
D511
D512
D513
D514
C514
C507
C508
R503
R504
D505
D502
C509
C501
IC501

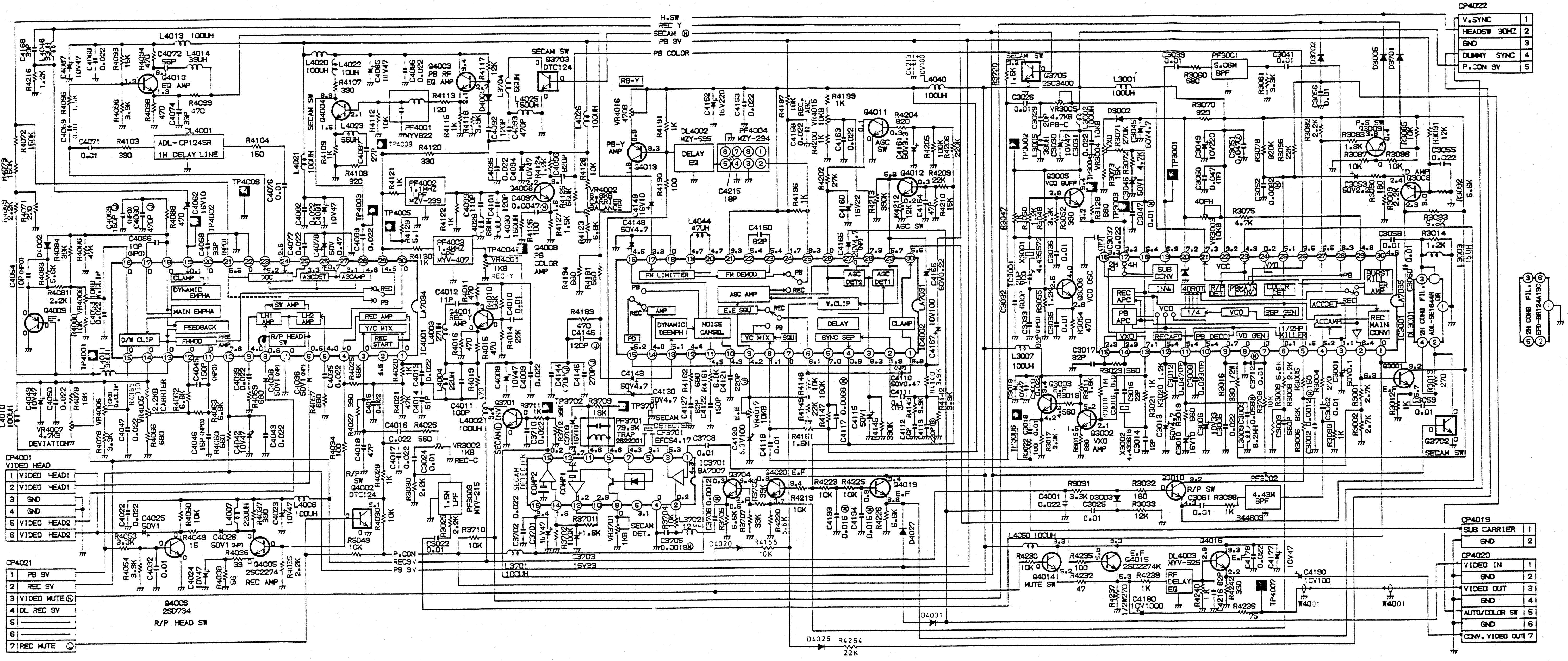
TUNER P.C. BOARD


REF.NO:6000 SERIES
D02
D01
R16
C07
C09
C05
Q05
C10
R19
R10
C08
TU01
C02
R07
Q06
Q3
R06
C11
L03
L02
CD01
E
Q01
C03
L01
SIF
R02
R03
R01
W05
W03
W02
C01
VIF
VE0097A

SYMBLE LIST

RESISTOR	——
SEMI-FIXED RESISTOR	|——
CAPACITOR	—| |—
JUMPER	⟷

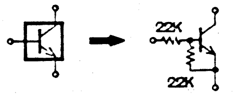
Y/C SCHEMATIC DIAGRAM


H.SW
REC Y
SECAM Ⓗ
PB 9V
PB COLOR
CP4022
1 V.SYNC
2 HEADSW 30HZ
3 GND
4 DUMMY SYNC
5 P.CON 9V
CP4001 VIDEO HEAD
1 VIDEO HEAD1
2 VIDEO HEAD1
3 GND
4 GND
5 VIDEO HEAD2
6 VIDEO HEAD2
CP4021
1 PB 9V
2 REC 9V
3 VIDEO MUTE
4 DL REC 9V
5
6
7 REC MUTE
CP4019
1 SUB CARRIER
2 GND
CP4020
1 VIDEO IN
2 GND
3 VIDEO OUT
4 GND
5 AUTO/COLOR SW
6 GND
7 CONV. VIDEO OUT
Q4010 EQ AMP
Q4003 PB RF EQ AMP
Q4009
Q4006 2SD734 R/P HEAD SW
Q4005 2SC2274 REC AMP
Q4002 DTC124 R/P SW
Q3703 DTC124 SECAM SW
Q3705 2SC3400 SECAM SW
Q4008 PB COLOR AMP
Q4013 PB-Y AMP
Q4011 AGC SW
Q4012 AGC SW
Q4001 REC Y AMP
Q3701 SECAM INV
Q3704
Q4020 E.F
Q4019 E.F
Q4014 MUTE SW
Q4015 2SC2274K E.F
Q4016
Q3005 VCO BUFF
Q3006 VCO OSC
Q3003
Q3002 VXO AMP
Q3001
Q3009 P.S SW
Q3008 ID AMP
Q3010 R/P SW
Q3702 SECAM SW
DL4001 ADL-CP124SR 1H DELAY LINE
DL4002 MZY-595 DELAY EQ
DL4003 MYV-525 RF DELAY EQ
DL3001 ADL-SE104R 2H COMB FIL.
PF4001 MYV-822
PF4002 1.1MHZ LPF MZV-239
PF4003 1.2MHZ HPF MYV-407
PF4004 MZY-294
PF3001 5.06M BPF
PF3002 4.43M BPF
PF3003 MYV-215 1.5M LPF
PF3701 79.6K TRAP
CF3701 EFCS4.17
IC3701 BA7007
SECAM DETECTER
SECAM DET.
COMP1
COMP2
2H COMB FIL. EFD-BR124A13C
DYNAMIC EMPHA
MAIN EMPHA
FEEDBACK
D/W CLIP
CLAMP
W/D CLIP
FM MOD
OSC
AGCDET
AGCAMP
SW AMP
LH1 AMP
LH2 AMP
R/P HEAD SW
REC AMP
Y/C MIX
REC START
FM LIMITTER
FM DEMOD
AGC AMP
AGC DET2
AGC DET1
E.E SQU
DYNAMIC DEEMPH
NOISE CANSEL
YC MIX
SQU
W.CLIP
DELAY
CLAMP
SYNC SEP
SUB CCONV
1/4
40ROT
R/P DET
PB MAIN CCONV
COLOR DET
BURST KILL
REC APC
PB APC
VCO
BGP GEN
ACC DET
ACC AMP
REC MAIN CONV
VXO
RECAFC
PB DECO
VD GEN
1/2HP KILLER
ID GEN
TP4001
TP4002
TP4003
TP4004
TP4005
TP4006
TP4007
TP4009
TP3001
TP3002
TP3003
TP3005
TP3006
TP3701
TP3702
W4001
D4026
R4264 22K
D4031
D4027
D4020

NOTES : UNLESS OTHERWISE SPECIFIED
1. PNP TYPE TRANSISTORS ARE 2SA608K (F.G) OR EQ.
2. NPN TYPE TRANSISTORS ARE 2SC536K (F.G) OR EQ.
3. ALL DIODES ARE GMA-01 OR EQ.

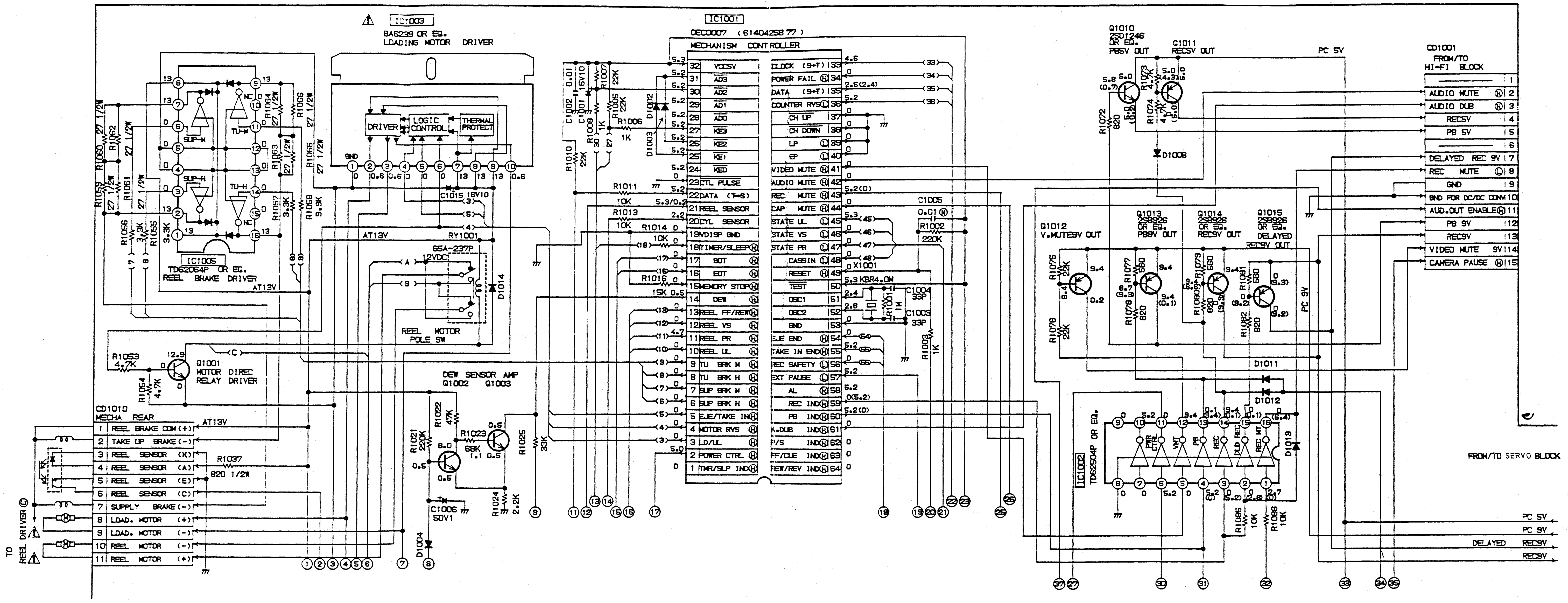
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION : DIGITAL TRANSISTOR
DTC124 OR 2SC3400

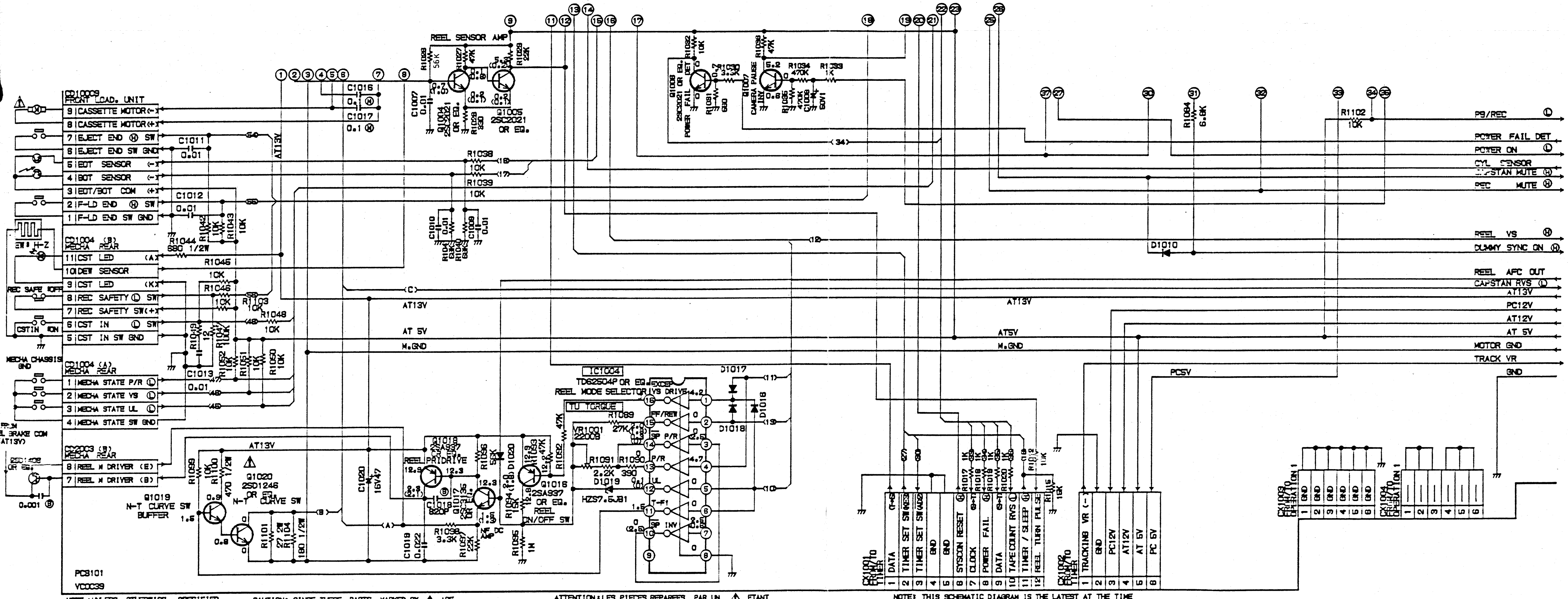


Y/C SCHEMATIC DIAGRAM

SYSTEM CONTROL SCHEMATIC DIAGRAM


IC1003
BA6239 OR EQ.
LOADING MOTOR DRIVER
DRIVER
LOGIC CONTROL
THERMAL PROTECT
IC1001
OEC0007 (6140425877)
MECHANISM CONTROLLER
VCCSV
CLOCK (S→T)
POWER FAIL
DATA (S→T)
COUNTER RVS
CH UP
CH DOWN
LP
EP
VIDEO MUTE
AUDIO MUTE
CTL PULSE
DATA (T→S)
REC MUTE
REEL SENSOR
CAP MUTE
CYL SENSOR
STATE UL
VDISP GND
STATE VS
TIMER/SLEEP
STATE PR
BOT
CASSIN
EOT
RESET
MEMORY STOP
TEST
DEW
OSC1
REEL FF/REW
OSC2
REEL VS
GND
REEL PR
EJE END
REEL UL
TAKE IN END
TU BRK M
REC SAFETY
TU BRK H
EXT PAUSE
SUP BRK M
AL
SUP BRK H
REC IND
EJE/TAKE IN
PB IND
MOTOR RVS
A.DUB
LD/UL
P/S IND
POWER CTRL
FF/CUE IND
TMR/SLP IND
REW/REV IND
X1001
KBR4.0M
IC1005
TD62064P OR EQ.
REEL BRAKE DRIVER
SUP-M
SUP-H
TU-M
TU-H
AT13V
RY1001
GSA-237P
12VDC
REEL MOTOR POLE SW
D1014
Q1001
MOTOR DIREC RELAY DRIVER
R1053 4.7K
R1054 4.7K
DEW SENSOR AMP
Q1002 Q1003
R1021 220K
R1022 47K
R1023 68K
R1024 2.2K
R1025 33K
C1006 50V1
D1004
CD1010
MECHA REAR
1 REEL BRAKE COM (+)
2 TAKE UP BRAKE (-)
3 REEL SENSOR (K)
4 REEL SENSOR (A)
5 REEL SENSOR (E)
6 REEL SENSOR (C)
7 SUPPLY BRAKE (-)
8 LOAD. MOTOR (+)
9 LOAD. MOTOR (-)
10 REEL MOTOR (-)
11 REEL MOTOR (+)
R1037 820 1/2W
TO REEL DRIVER
Q1010
2SD1246 OR EQ.
PBSV OUT
Q1011
RECSV OUT
D1008
PC 5V
CD1001
FROM/TO HI-FI BLOCK
AUDIO MUTE 2
AUDIO DUB 3
RECSV 4
PB 5V 5
6
DELAYED REC 9V 7
REC MUTE 8
GND 9
GND FOR DC/DC CONV 10
AUD.OUT ENABLE 11
PB 9V 12
RECSV 13
VIDEO MUTE 9V 14
CAMERA PAUSE 15
Q1012
V.MUTE9V OUT
Q1013
2SB926 OR EQ.
PBSV OUT
Q1014
2SB926 OR EQ.
RECSV OUT
Q1015
2SB926 OR EQ.
DELAYED RECSV OUT
D1011
D1012
D1013
IC1002
TD62504P OR EQ.
R1085 10K
R1086 10K
FROM/TO SERVO BLOCK
PC 5V
PC 9V
DELAYED RECSV
RECSV

SYSTEM CONTROL SCHEMATIC DIAGRAM


CD1009 FRONT LOAD. UNIT
9 CASSETTE MOTOR(−)
8 CASSETTE MOTOR(+)
7 EJECT END Ⓗ SW
6 EJECT END SW GND
5 EOT SENSOR (−)
4 BOT SENSOR (−)
3 EOT/BOT COM (+)
2 F-LD END Ⓗ SW
1 F-LD END SW GND
CD1004 (B) MECHA REAR
11 CST LED (A)
10 DEW SENSOR
9 CST LED (K)
8 REC SAFETY Ⓛ SW
7 REC SAFETY SW(+)
6 CST IN Ⓛ SW
5 CST IN SW GND
REC SAFE OFF
CSTIN ON
MECHA CHASSIS GND
CD1004 (A) MECHA REAR
1 MECHA STATE P/R Ⓛ
2 MECHA STATE VS Ⓛ
3 MECHA STATE UL Ⓛ
4 MECHA STATE SW GND
CD2003 (B) MECHA REAR
8 REEL M DRIVER (E)
7 REEL M DRIVER (B)
0.001 Ⓑ
C1011 0.01
C1012 0.01
C1013 0.01
R1042 10K
R1043 10K
R1044 680 1/2W
R1045 10K
R1046 10K
R1103 10K
R1048 10K
R1049 12
R1047 100K
R1052 10K
R1051 10K
R1050 10K
AT13V
AT 5V
M.GND
AT5V
C1016 0.1 Ⓗ
C1017 0.1 Ⓗ
C1007 0.01
REEL SENSOR AMP
R1028 56K
R1027 47K
R1029 22K
R1026 330
Q1004 2SC2021 OR EQ.
Q1005 2SC2021 OR EQ.
R1038 10K
R1039 10K
C1010 0.01
C1009 0.01
R1040 68K
R1041 68K
Q1008 2SC2021 OR EQ. POWER FAIL DET
R1032 10K
R1033 3.3K
R1031 680
Q1007 CAMERA PAUSE INV
R1036 47K
R1034 470K
R1133 1K
R1035 470K
C1008 1 50V
R1084 6.8K
R1102 10K
D1010
PB/REC Ⓛ
POWER FAIL DET
POWER ON Ⓛ
CYL SENSOR
CAPSTAN MUTE Ⓗ
REC MUTE Ⓗ
REEL VS Ⓗ
DUMMY SYNC ON Ⓗ
REEL AFC OUT
CAPSTAN RVS Ⓛ
AT13V
PC12V
AT12V
AT 5V
MOTOR GND
TRACK VR
GND
PC5V
IC1004 TD62504P OR EQ. REEL MODE SELECTOR
EXCEPT VS DRIVE
TU TORQUE
FF/REW
SP P/R
P/R
UL
T-F1
SP INV
D1017
D1018
D1019 HZS7.5JB1
VR1001 2200B
R1089 27K
R1091 2.2K
R1090 390
R1092
47K
Q1018 2SA937 OR EQ. REEL PRIDRIVE
Q1017 2SC3135 OR EQ.
Q1016 2SA937 OR EQ. REEL ON/OFF SW
C1018 820P
C1019 0.022
C1020 16V47
R1096 56K
D1020
R1093 47K
R1094 15K
R1095 1M
R1098 3.3K
R1097 22K
NF DC AMP
Q1019 N-T CURVE SW BUFFER
Q1020 2SD1246 OR EQ. N-T CURVE SW
R1099 10K
R1100 470 1/2W
R1101 27 2W
R1104 180 1/2W
R1012 10K
R1015 15K
CX1001 FRONT TIMER
1 DATA
2 TIMER SET SW
3 TIMER SET SW
4 GND
5 GND
6 SYSCON RESET Ⓛ
7 CLOCK
8 POWER FAIL
9 DATA
10 TAPE COUNT RVS Ⓛ
11 TIMER / SLEEP Ⓛ
12 REEL TURN PULSE
CX1002 FRONT TIMER
1 TRACKING VR (−)
2 GND
3 PC12V
4 AT12V
5 AT 5V
6 PC 5V
CX1003 OPERATION 1
GND
CX1004 OPERATION 1
PCB101
VCOC39

NOTE : UNLESS OTHERWISE SPECIFIED
1. DIODES ARE 6MA01 OR EQ.
2. NPN TR'S ARE 2SC536 OR EQ.
3. PNP TR'S ARE 2SA608 OR EQ.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

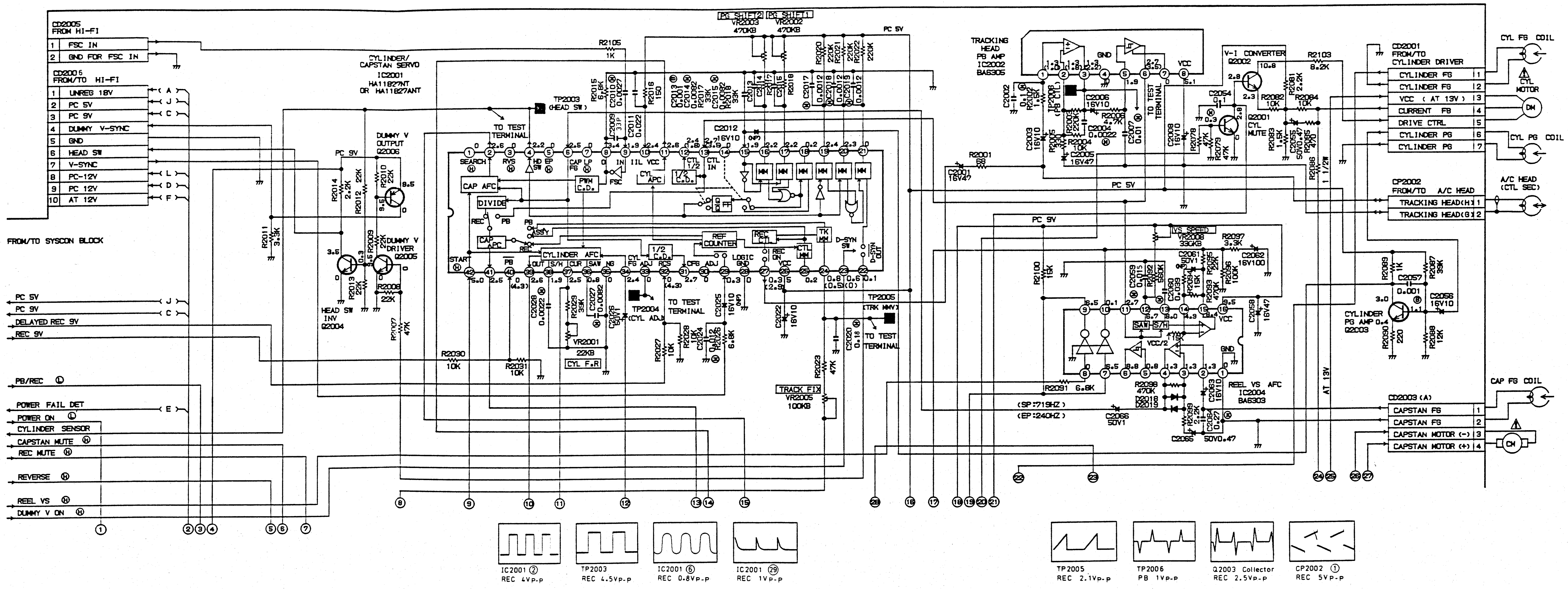
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER DURING PLAYBACK AND SP MODE.
2. WHERE VOLTAGE DIFFERS BETWEEN SP-PLAYBACK AND EP-RECORDING. THE VOLTAGE DURING EP-RECORDING MODE IS SHOWN IN PARENTHESES.

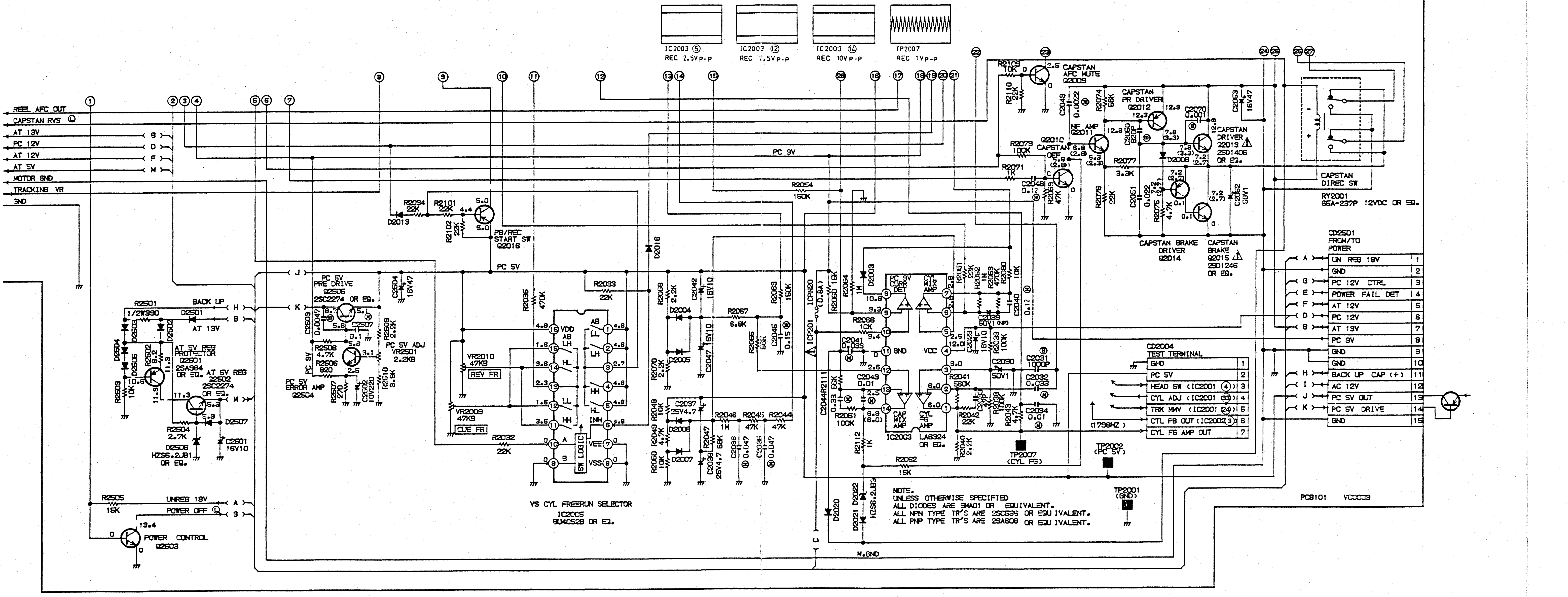
SYSTEM CONTROL SCHEMATIC DIAGRAM

SERVO/SUB POWER SCHEMATIC DIAGRAM


CD2005 FROM HI-FI
1 FSC IN
2 GND FOR FSC IN
CD2006 FROM/TO HI-FI
1 UNREG 18V
2 PC 5V
3 PC 9V
4 DUMMY V-SYNC
5 GND
6 HEAD SW
7 V-SYNC
8 PC-12V
9 PC 12V
10 AT 12V
FROM/TO SYSCON BLOCK
PC 5V
PC 9V
DELAYED REC 9V
REC 9V
PB/REC
POWER FAIL DET
POWER ON
CYLINDER SENSOR
CAPSTAN MUTE
REC MUTE
REVERSE
REEL VS
DUMMY V ON
CYLINDER/CAPSTAN SERVO IC2001 HA11827NT OR HA11827ANT
DUMMY V OUTPUT Q2006
DUMMY V DRIVER Q2005
HEAD SW INV Q2004
TP2003 (HEAD SW)
TO TEST TERMINAL
CAP AFC
DIVIDE
CAP APC
CYLINDER AFC
CYL APC
REF COUNTER
REC CTL
TP2004 (CYL ADJ)
VR2001 22KB CYL F.R
PG SHIFT2 VR2003 470KB
PG SHIFT1 VR2002 470KB
TP2005 (TRK MMV)
TRACK FIX VR2005 100KB
TRACKING HEAD PB AMP IC2002 BA6305
V-I CONVERTER Q2002
Q2001 CYL MUTE
VS SPEED VR2006 330KB
REEL VS AFC IC2004 BA6303
(SP:719HZ)
(EP:240HZ)
CYLINDER PG AMP Q2003
AT 13V
CD2001 FROM/TO CYLINDER DRIVER
CYLINDER FG 1
CYLINDER FG 2
VCC (AT 13V) 3
CURRENT FB 4
DRIVE CTRL 5
CYLINDER PG 6
CYLINDER PG 7
CYL FG COIL
CYL MOTOR
CYL PG COIL
CP2002 FROM/TO A/C HEAD
TRACKING HEAD(H) 1
TRACKING HEAD(G) 2
A/C HEAD (CTL SEC)
CD2003 (A)
CAPSTAN FG 1
CAPSTAN FG 2
CAPSTAN MOTOR (-) 3
CAPSTAN MOTOR (+) 4
CAP FG COIL
IC2001 ② REC 4Vp-p
TP2003 REC 4.5Vp-p
IC2001 ⑥ REC 0.8Vp-p
IC2001 ㉙ REC 1Vp-p
TP2005 REC 2.1Vp-p
TP2006 PB 1Vp-p
Q2003 Collector REC 2.5Vp-p
CP2002 ① REC 5Vp-p

SERVO/SUB POWER SCHEMATIC DIAGRAM

SERVO/SUB POWER SCHEMATIC DIAGRAM


IC2003 ⑤ REC 2.5Vp-p
IC2003 ⑫ REC 2.5Vp-p
IC2003 ⑭ REC 10Vp-p
TP2007 REC 1Vp-p
REEL AFC OUT
CAPSTAN RVS Ⓛ
AT 13V
PC 12V
AT 12V
AT 5V
MOTOR GND
TRACKING VR
GND
PC 9V
PC 5V
R2054 150K
R2034 22K
R2101 22K
D2013
R2102 22K
PB/REC START SW Q2016
BACK UP
R2501 1/2W390
D2501
AT 13V
AT 5V REG PROTECTOR Q2501 2SA984 OR EQ.
AT 5V REG Q2502 2SC2274 OR EQ.
D2507
R2504 2.7K
D2506 HZS6.2JB1 OR EQ.
C2501 16V10
PC 5V PRE DRIVE Q2505 2SC2274 OR EQ.
C2504 16V47
PC 5V ADJ VR2501 2.2KB
PC 5V ERROR AMP Q2504
R2505 15K
UNREG 18V
POWER OFF Ⓛ
POWER CONTROL Q2503
VR2010 47KB
REV FR
VR2009 47KB
CUE FR
R2032 22K
R2033 22K
R2036 470K
VS CYL FREERUN SELECTOR
IC2005 BU4052B OR EQ.
VDD
VEE
VSS
INH
SW LOGIC
D2018
R2068 2.2K
C2042 16V10
D2004
D2005
C2047 16V10
R2067 6.8K
R2065 68K
C2045 0.15
R2063 150K
C2037 25V4.7
R2046 1M
R2045 47K
R2044 47K
D2006
D2007
C2036 0.047
C2035 0.047
ICP201
ICPN20 (0.6A)
R2060 10K
R2064 1M
D2003
PC 9V CURR DET
CYL MIX AMP
R2066 10K
C2041 0.033
GND
VCC
C2043 0.01
CAP MIX AMP
CYL FG AMP
IC2003 LA6324 OR EQ.
R2041 560K
R2061 100K
R2042 22K
R2040 2.2K
R2112 1K
R2062 15K
C2030 50V1
C2031 1000P
C2032 0.033
C2034 0.01
C2040 0.12
D2020
D2021
D2022 HZS6.2JB3
NOTE.
UNLESS OTHERWISE SPECIFIED
ALL DIODES ARE SMA01 OR EQUIVALENT.
ALL NPN TYPE TR'S ARE 2SC536 OR EQUIVALENT.
ALL PNP TYPE TR'S ARE 2SA608 OR EQUIVALENT.
M.GND
R2109 10K
R2110 22K
CAPSTAN AFC MUTE Q2009
C2049 0.0022
R2074 68K
CAPSTAN PR DRIVER Q2012
C2070 0.001
C2063 16V47
NF AMP Q2011
C2050 820P
CAPSTAN DRIVER Q2013 ⚠ 2SD1406 OR EQ.
D2008
R2073 100K
Q2010 CAPSTAN OFF
R2071 1K
C2048 0.12
R2069 47K
R2077 3.3K
R2076 22K
C2051 0.022
R2075 4.7K
C2052 50V1
CAPSTAN BRAKE DRIVER Q2014
CAPSTAN BRAKE Q2015 ⚠ 2SD1246 OR EQ.
CAPSTAN DIREC SW
RY2001 G5A-237P 12VDC OR EQ.
CD2501 FROM/TO POWER
UN REG 18V 1
GND 2
PC 12V CTRL 3
POWER FAIL DET 4
AT 12V 5
PC 12V 6
AT 13V 7
PC 9V 8
GND 9
GND 10
BACK UP CAP (+) 11
AC 12V 12
PC 5V OUT 13
PC 5V DRIVE 14
GND 15
CD2004 TEST TERMINAL
GND 1
PC 5V 2
HEAD SW (IC2001 ④) 3
CYL ADJ (IC2001 ㉝) 4
TRK MMV (IC2001 ㉔) 5
CTL FB OUT (IC2002 ③) 6
CYL FG AMP OUT 7
(1798HZ)
TP2002 (PC 5V)
TP2007 (CYL FG)
TP2001 (GND)
PCB101 VCC033

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

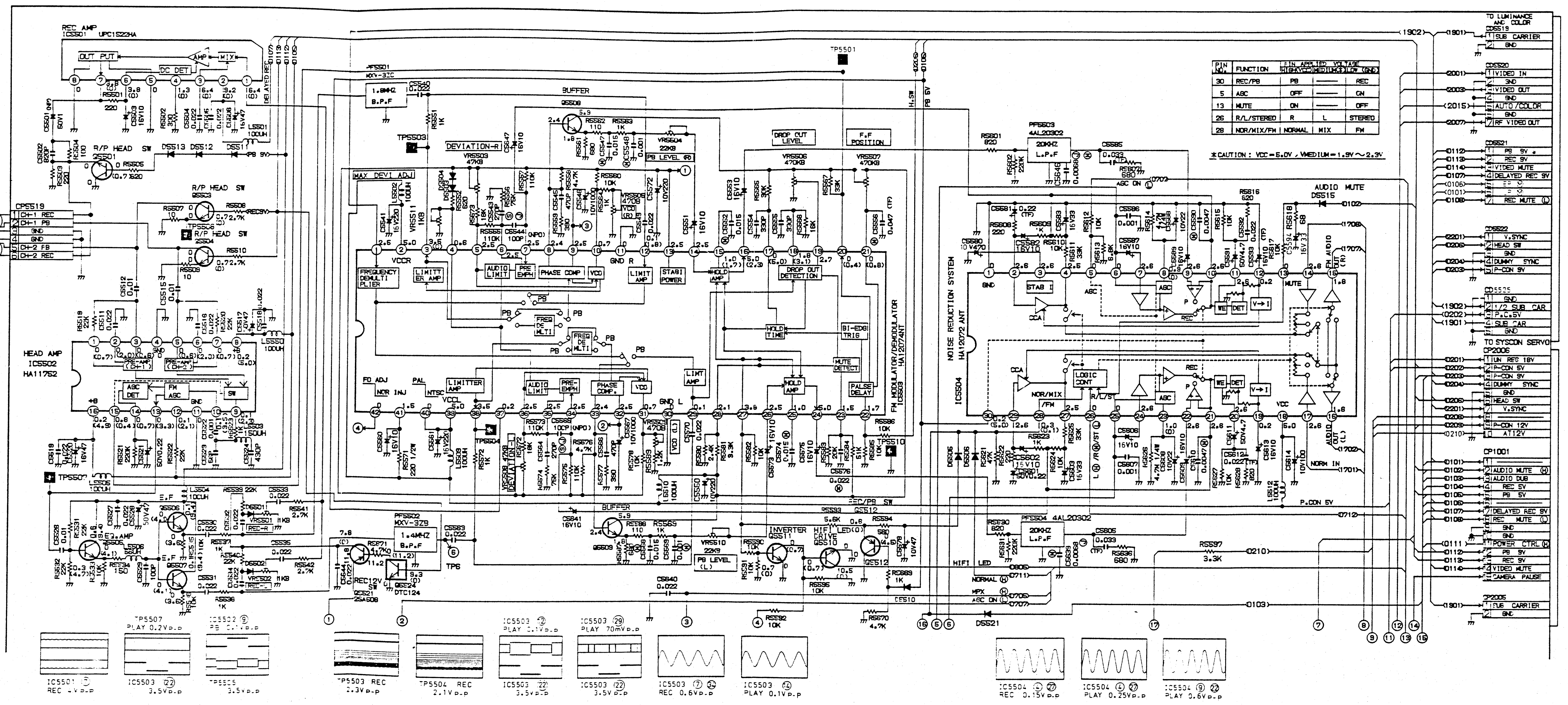
ATTENTION : LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

1. VOLTAGES ARE DC- MEASURED WITH A DIGITAL VOLTMETER DURING PLAYBACK AND SP MODE.
2. WHERE VOLTAGE DIFFERS BETWEEN SP-PLAYBACK AND EP-RECORDING, THE VOLTAGE DURING EP-RECORDING MODE IS SHOWN IN PARENTHESES.

SERVO/SUB POWER SCHEMATIC DIAGRAM

FM AUDIO SCHEMATIC DIAGRAM

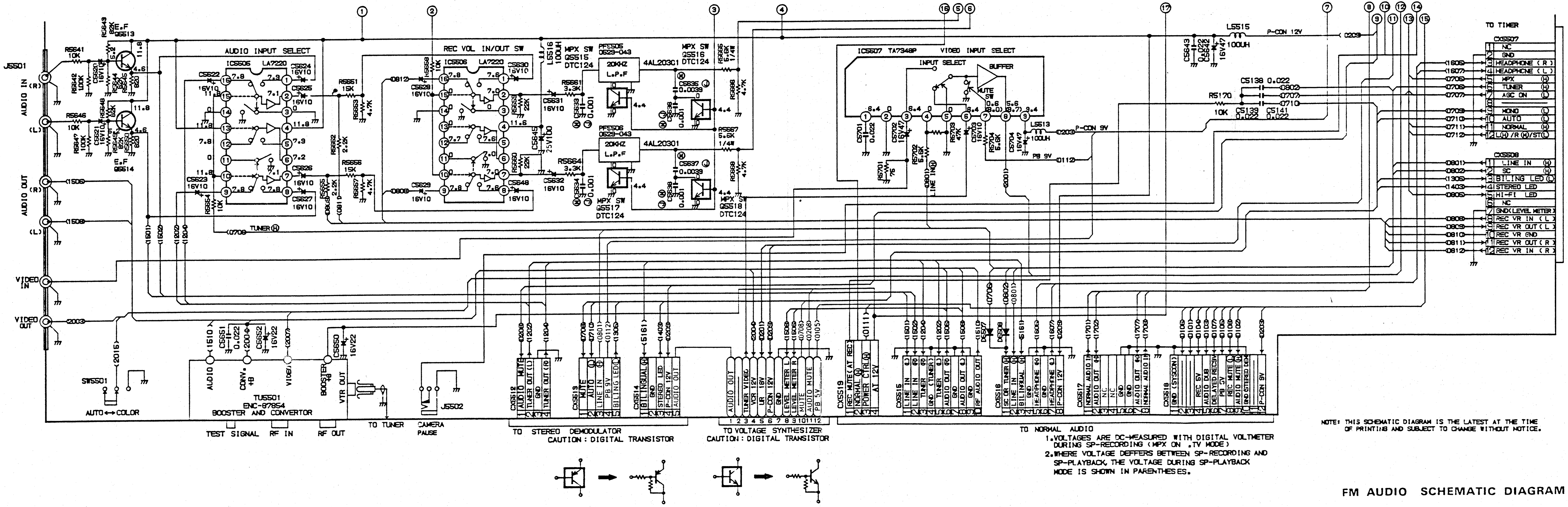

REC AMP IC5501 UPC1522HA
OUT PUT
DC DET
AMP
MIX
DELAYED REC
R/P HEAD SW Q5501
R/P HEAD SW Q5503
R/P HEAD SW Q5504
CP5519
CH-1 REC
CH-1 PB
GND
CH-2 PB
CH-2 REC
HEAD AMP IC5502 HA11752
PRE-AMP (CH-1)
PRE-AMP (CH-2)
AGC DET
FM AGC
SW
E.F
EQ.AMP
REC-R
REC-L
PF5501 MXV-3ZC
1.8MHZ B.P.F
BUFFER Q5508
TP5501
TP5503
DEVIATION-R
MAX DEVI ADJ
PB LEVEL (R)
DROP OUT LEVEL
F.F POSITION
FREQUENCY DEMULTIPLIER
LIMITTER AMP
AUDIO LIMIT
PRE EMPH
PHASE COMP
VCO
LIMIT AMP
STABI POWER
HOLD AMP
DROP OUT DETECTION
FREQ DE MLTI
HOLD TIME
BI-EDGE TRIG
MUTE DETECT
PALSE DELAY
FD ADJ
NOR INJ
PAL
NTSC
VCCR
VCCL
GND R
GND L
FM MODULATOR/DEMODULATOR IC5503 HA12074NT
TP5504
DEVIATION-L
TP5510
PF5502 MXV-3Z9
1.4MHZ B.P.F
TP6
REC12V SW Q5521 2SA608
Q5524 DTC124
BUFFER Q5509
PB LEVEL (L)
INVERTER Q5511
HIFI DRIVE Q5510
LED(O) Q5512
REC/PB SW
NOISE REDUCTION SYSTEM IC5504 HA12072 ANT
PF5503 4AL20302
20KHZ L.P.F
AGC ON
AUDIO MUTE D5515
STAB I
CCA
AGC
REC
WE
DET
V→I
MUTE
LOGIC CONT
NOR/MIX /FM
R/L/ST
L Ⓗ /R Ⓜ/ST Ⓛ
AUDIO OUT (R)
AUDIO OUT (L)
NORM IN
P.CON 5V
PF5504 4AL20302
20KHZ L.P.F
HIFI LED
NORMAL Ⓗ
MPX Ⓗ
AGC ON Ⓛ
D5521
TO LUMINANCE AND COLOR CP5519
SUB CARRIER
GND
CP5520
VIDEO IN
VIDEO OUT
AUTO/COLOR
RF VIDEO OUT
CP5521
PB 9V
REC 9V
VIDEO MUTE
DELAYED REC 9V
REC MUTE Ⓛ
CP5522
V.SYNC
HEAD SW
DUMMY SYNC
P-CON 9V
CP5525
1/2 SUB CAR
P.C.5V
SUB CAR
TO SYSCON SERVO CP2006
UN REC 18V
P-CON 5V
P-CON 9V
DUMMY SYNC
HEAD SW
V.SYNC
P-CON 12V
AT12V
CP1001
AUDIO MUTE Ⓗ
AUDIO DUB
REC 5V
PB 5V
DELAYED REC 9V
REC MUTE Ⓛ
POWER CTRL Ⓗ
PB 9V
REC 9V
VIDEO MUTE
CAMERA PAUSE
CP2005
SUB CARRIER
GND
TP5507 PLAY 0.2Vp-p
IC5502 ⑨ PB 0.1Vp-p
IC5503 ⑫ PLAY 0.1Vp-p
IC5503 ㉙ PLAY 70mVp-p
IC5501 ⑦ REC 4Vp-p
IC5503 ㉒ 3.5Vp-p
TP5505 3.5Vp-p
TP5503 REC 2.3Vp-p
TP5504 REC 2.1Vp-p
IC5503 ㉒ 3.5Vp-p
IC5503 ㉒ 3.5Vp-p
IC5503 ⑦ ㉞ REC 0.6Vp-p
IC5503 ⑭ PLAY 0.1Vp-p
IC5504 ④ ㉗ REC 0.15Vp-p
IC5504 ④ ㉗ PLAY 0.25Vp-p
IC5504 ⑨ ㉒ PLAY 0.6Vp-p

PIN NO.	FUNCTION	PIN APPLIED VOLTAGE HIGH(VCC)	MED(1.M.※)	LOW (GND)
30	REC/PB	PB	———	REC
5	AGC	OFF	———	ON
13	MUTE	ON	———	OFF
26	R/L/STEREO	R	L	STEREO
28	NOR/MIX/FM	NORMAL	MIX	FM

*CAUTION : VCC=5.0V , VMEDIUM=1.9V～2.3V

FM AUDIO SCHEMATIC DIAGRAM

FM AUDIO SCHEMATIC DIAGRAM

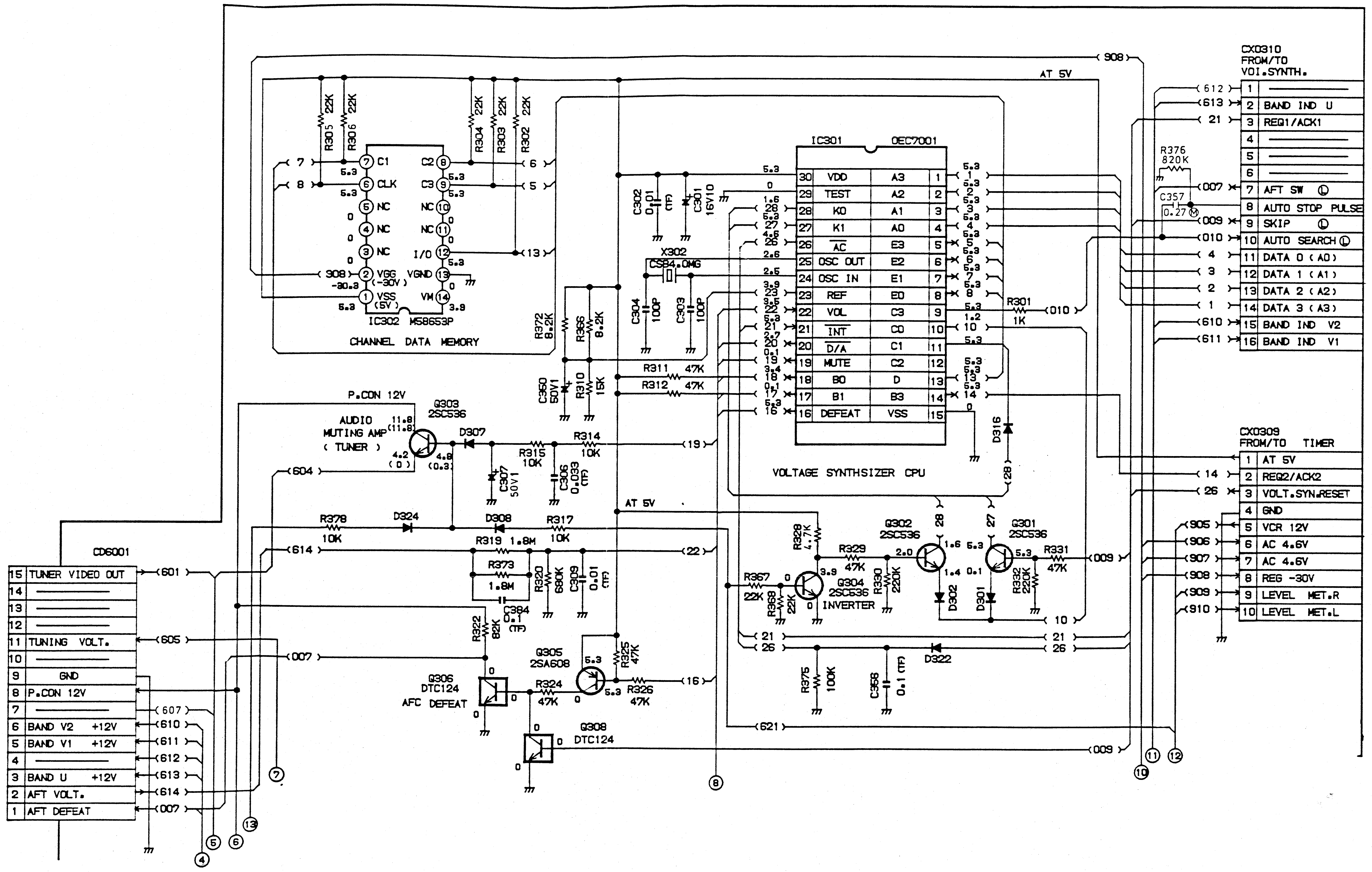

J5501
AUDIO IN (R)
(L)
AUDIO OUT (R)
(L)
VIDEO IN
VIDEO OUT
Q5513
Q5514
AUDIO INPUT SELECT
IC5505 LA7220
REC VOL IN/OUT SW
IC5506 LA7220
L5516 100UH
MPX SW Q5515 DTC124
PF5505 0629-043
20KHZ L.P.F
4AL20301
MPX SW Q5516 DTC124
PF5506 0629-043
MPX SW Q5517 DTC124
MPX SW Q5518 DTC124
IC5507 TA7348P
VIDEO INPUT SELECT
INPUT SELECT
BUFFER
MUTE SW
L5513 100UH
P-CON 9V
PB 9V
L5515 100UH
P-CON 12V
R5170 10K
C5138 0.022
C5139 0.022
C5141 0.022
TO TIMER
CX5507
NC
GND
HEADPHONE (R)
HEADPHONE (L)
MPX
TUNER
AGC ON
MONO
AUTO
NORMAL
L(H)/R(H)/ST(L)
CX5508
LINE IN
SC
BILING LED
STEREO LED
HI-FI LED
NC
GND(LEVEL METER)
REC VR IN (L)
REC VR OUT (L)
REC VR GND
REC VR OUT (R)
REC VR IN (R)
SW5501
AUTO ↔ COLOR
TU5501
ENC-87854
BOOSTER AND CONVERTOR
AUDIO
CONV. +B
VIDEO
BOOSTER +B
VTR OUT
TEST SIGNAL
RF IN
RF OUT
TO TUNER
J5502
CAMERA PAUSE
CX5512
AUDIO MUTE
TUNER OUT (L)
GND
TUNER OUT (R)
CX5513
MUTE
AUTO
LINE IN
PB 9V
BILING LED
CX5514
BILINGUAL
GND
STEREO LED
P-CON 12V
AUDIO OUT
TO STEREO DEMODULATOR
CAUTION : DIGITAL TRANSISTOR
AUDIO OUT
TUNER VIDEO
VCR 12V
UR 18V
P-CON 12V
GND
LEVEL METER L
LEVEL METER R
MUTE
AUDIO MUTE
PB 5V
1 2 3 4 5 6 7 8 9 10 11 12
TO VOLTAGE SYNTHESIZER
CAUTION : DIGITAL TRANSISTOR
CX5519
REC MUTE (AT REC)
NORMAL
POWER CTRL
AT 12V
CX5515
LINE IN
LINE IN
GND
TUNER
TUNER
AUDIO OUT
GND
AUDIO OUT
RF AUDIO OUT
CX5516
SC OR TUNER
LINE IN
BILINGUAL
GND
HEADPHONE
GND
HEADPHONE
P-CON 12V
CX5517
NORMAL AUDIO IN
AUDIO OUT
NC
NC
GND
GND
AUDIO OUT
NORMAL AUDIO IN
CX5518
GND (SYSCON)
REC 5V
AUDIO DUB
DELAYED RECSW
PB 5V
REC MUTE
AUDIO MUTE
GND STEREO DEM
P-CON 9V
TO NORMAL AUDIO

1. VOLTAGES ARE DC-MEASURED WITH DIGITAL VOLTMETER DURING SP-RECORDING (MPX ON .TV MODE)
2. WHERE VOLTAGE DEFFERS BETWEEN SP-RECORDING AND SP-PLAYBACK, THE VOLTAGE DURING SP-PLAYBACK MODE IS SHOWN IN PARENTHESES.

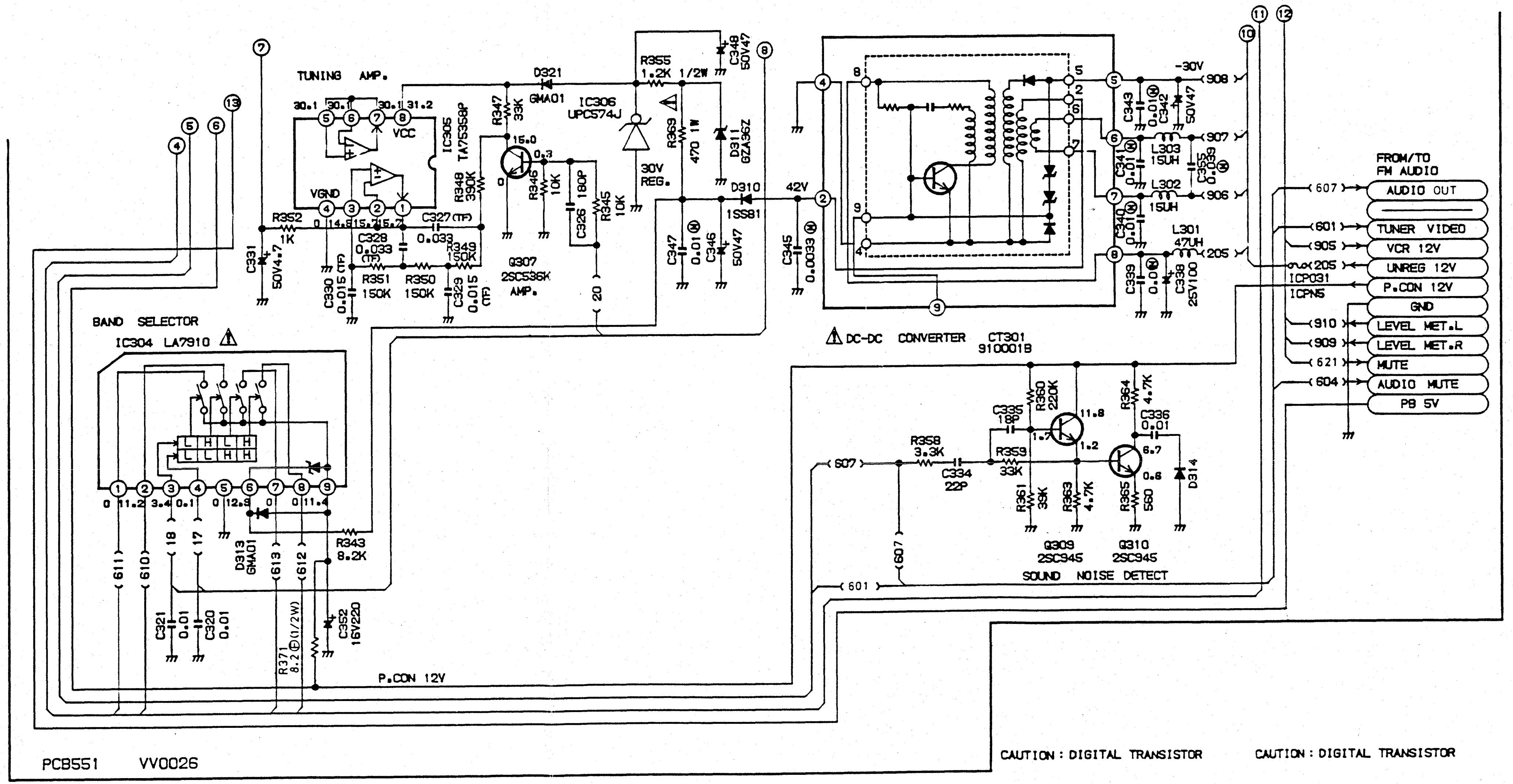
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

FM AUDIO SCHEMATIC DIAGRAM

VOL. SYNTH/TUNER SCHEMATIC DIAGRAM

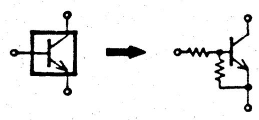

IC301 OEC7001
VOLTAGE SYNTHSIZER CPU
30 VDD
29 TEST
28 K0
27 K1
26 AC
25 OSC OUT
24 OSC IN
23 REF
22 VOL
21 INT
20 D/A
19 MUTE
18 B0
17 B1
16 DEFEAT
A3 1
A2 2
A1 3
A0 4
E3 5
E2 6
E1 7
E0 8
C3 9
C0 10
C1 11
C2 12
D 13
B3 14
VSS 15
IC302 M58653P
CHANNEL DATA MEMORY
C1
CLK
NC
NC
NC
VGG (-30V)
VSS (5V)
C2
C3
NC
NC
I/O
VGND
VM
R305 22K
R306 22K
R304 22K
R303 22K
R302 22K
C302 0.01 (TF)
C301 16V10
X302 CSB4.0MG
C304 100P
C303 100P
R372 8.2K
R366 8.2K
C360 50V1
R310 15K
R311 47K
R312 47K
R301 1K
D316
AT 5V
P.CON 12V
AUDIO MUTING AMP (TUNER)
Q303 2SC536
D307
R315 10K
R314 10K
C307 50V1
C306 0.033 (TF)
R378 10K
D324
D308
R317 10K
R319 1.8M
R373 1.8M
C384 0.1 (TF)
R320 680K
C309 0.01 (TF)
R322 82K
Q305 2SA608
R325 47K
R324 47K
R326 47K
Q306 DTC124
AFC DEFEAT
Q308 DTC124
R328 4.7K
R329 47K
Q302 2SC536
Q301 2SC536
R331 47K
R330 220K
R332 220K
R367 22K
R368 22K
Q304 2SC536
INVERTER
D302
D301
D322
R375 100K
C358 0.1 (TF)
R376 820K
C357 0.27 Ⓜ
CX0310 FROM/TO VOl.SYNTH.
1 ———
2 BAND IND U
3 REQ1/ACK1
4 ———
5 ———
6 ———
7 AFT SW Ⓛ
8 AUTO STOP PULSE
9 SKIP Ⓛ
10 AUTO SEARCH Ⓛ
11 DATA 0 (A0)
12 DATA 1 (A1)
13 DATA 2 (A2)
14 DATA 3 (A3)
15 BAND IND V2
16 BAND IND V1
CX0309 FROM/TO TIMER
1 AT 5V
2 REQ2/ACK2
3 VOLT.SYN.RESET
4 GND
5 VCR 12V
6 AC 4.6V
7 AC 4.6V
8 REG -30V
9 LEVEL MET.R
10 LEVEL MET.L
CD6001
15 TUNER VIDEO OUT
14 ———
13 ———
12 ———
11 TUNING VOLT.
10 ———
9 GND
8 P.CON 12V
7 ———
6 BAND V2 +12V
5 BAND V1 +12V
4 ———
3 BAND U +12V
2 AFT VOLT.
1 AFT DEFEAT
601
604
605
007
607
610
611
612
613
614
621
908
009
010
905
906
907
909
910
④ ⑤ ⑥ ⑦ ⑧ ⑩ ⑪ ⑫ ⑬

VOL. SYNTH/TUNER SCHEMATIC DIAGRAM

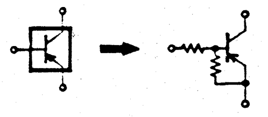


TUNING AMP.
IC305 TA75358P
VCC
VGND
R352 1K
C331 50V4.7
C330 0.015 (TF)
C328 0.033 (TF)
R351 150K
R350 150K
C329 0.015 (TF)
C327 (TF) 0.033
R349 150K
R348 390K
R347 33K
D321 GMA01
Q307 2SC536K AMP.
R346 10K
C326 180P
R345 10K
R355 1.2K 1/2W
IC306 UPC574J
30V REG.
R369 470 1W
D311 GZA36Z
C348 50V47
D310 1SS81
C347 0.01
C346 50V47
C345 0.0033
42V
DC-DC CONVERTER
CT301 910001B
C343 0.01
C342 50V47
-30V
L303 15UH
C355 0.039
L302 15UH
C341 0.01
C340 0.01
L301 47UH
C339 0.01
C338 25V100
FROM/TO FM AUDIO
AUDIO OUT
TUNER VIDEO
VCR 12V
UNREG 12V
P.CON 12V
GND
LEVEL MET.L
LEVEL MET.R
MUTE
AUDIO MUTE
PB 5V
ICP031
ICPN5
BAND SELECTOR
IC304 LA7910
D313 GMA01
R343 8.2K
C321 0.01
C320 0.01
R371 8.2 (1/2W)
C352 16V220
P.CON 12V
R360 220K
R364 4.7K
C335 18P
C336 0.01
R358 3.3K
R359 33K
C334 22P
R361 33K
R363 4.7K
R365 560
D314
Q309 2SC945
Q310 2SC945
SOUND NOISE DETECT
PCB551 VV0026

CAUTION : DIGITAL TRANSISTOR



CAUTION : DIGITAL TRANSISTOR



CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY , USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION : LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

USE ALL DIODES SPECIFIED GMA01 OR 1SS120 EQUIVALENT.

VOL. SYNTH/TUNER SCHEMATIC DIAGRAM

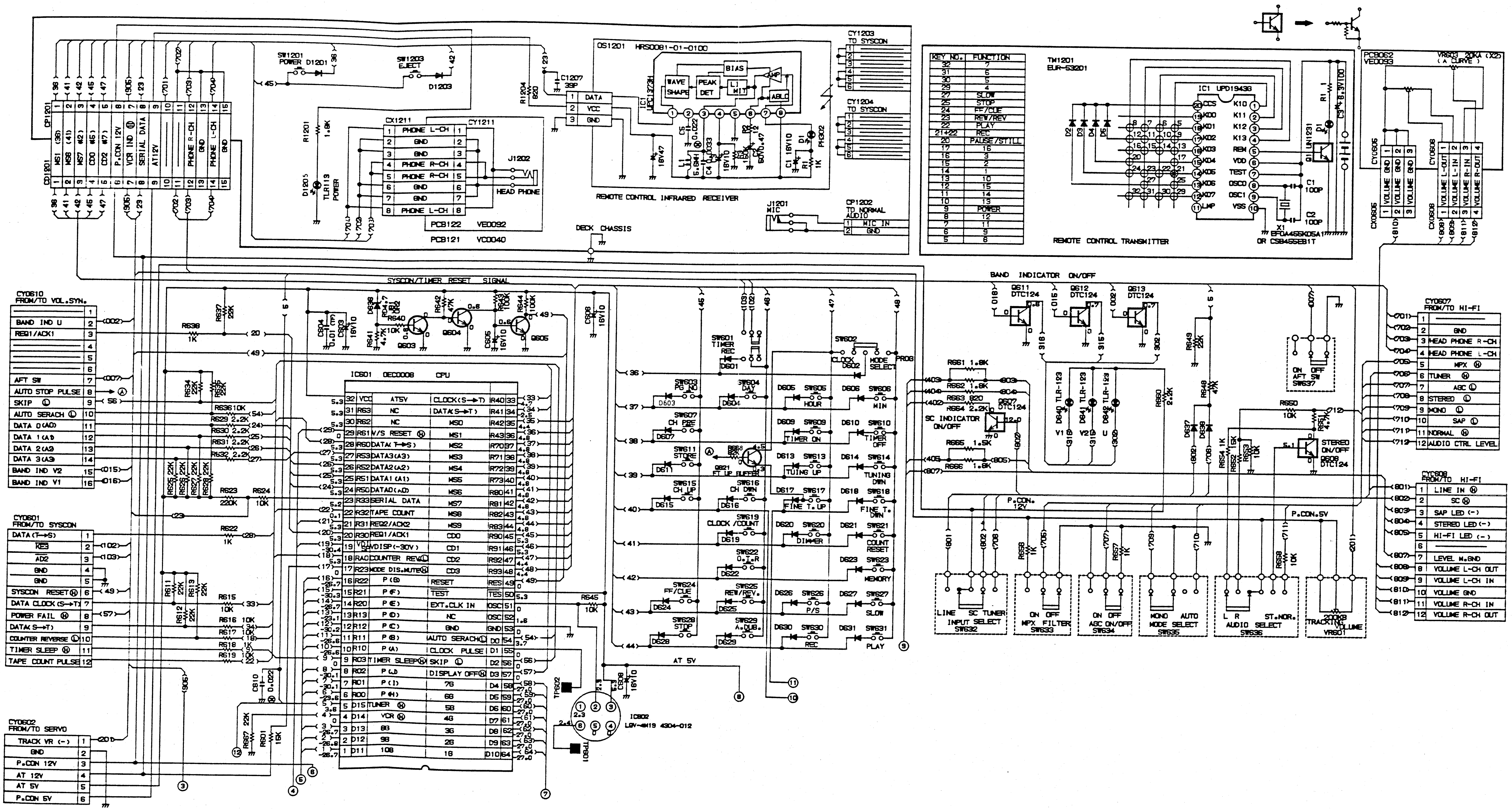
TIMER/OPERATION SCHEMATIC DIAGRAM

ATTENTION : LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY , USE ONES DESCRIBED ON PARTS LIST ONLY.

NOTES
1 THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.
2 NPN TYPE TRANSISTORS ARE 2SC536K (F,G) OR EQUIV.
3 PNP TYPE TRANSISTORS ARE 2SC608K (F,G) OR EQUIV.
4 ALL DIODES ARE GMA-01 OR 1SS132 OR EQUIV.

CAUTION : DIGITAL TRANSISTOR


CP1201
CD1201
SW1201 POWER D1201
SW1203 EJECT
D1203
C1207 39P
R1204 820
R1201 1.8K
D1205 TLR113 POWER
CX1211
CY1211
PHONE L-CH
GND
PHONE R-CH
J1202 HEAD PHONE
PCB122 VE0092
PCB121 VC0040
DS1201 HRS0081-01-0100
IC1 UPC1373H
WAVE SHAPE
PEAK DET
BIAS
LIMIT
AMP
ABLC
DATA
VCC
GND
REMOTE CONTROL INFRARED RECEIVER
DECK CHASSIS
CY1203 TO SYSCON
CY1204 TO SYSCON
J1201 MIC
CP1202 TO NORMAL AUDIO
MIC IN
TM1201 EUR-53201
IC1 UPD1943G
REMOTE CONTROL TRANSMITTER
X1 EFOA455K05A1 OR CSB455EB1T
C1 100P
C2 100P
PCB062 VE0033
VR503 20KA (X2) (A CURVE)
CY0606
CX0606
CY0608
CX0608
VOLUME GND
VOLUME L-OUT
VOLUME L-IN
VOLUME R-IN
VOLUME R-OUT
CY0610 FROM/TO VOL.SYN.
BAND IND U
REG1/ACK1
AFT SW
AUTO STOP PULSE
SKIP Ⓛ
AUTO SERACH Ⓛ
DATA 0(A0)
DATA 1(A1)
DATA 2(A2)
DATA 3(A3)
BAND IND V2
BAND IND V1
CY0601 FROM/TO SYSCON
DATA(T→S)
RES
AD2
SYSCON RESET Ⓗ
DATA CLOCK (S→T)
POWER FAIL Ⓗ
DATA(S→T)
COUNTER REVERSE Ⓛ
TIMER SLEEP Ⓗ
TAPE COUNT PULSE
CY0602 FROM/TO SERVO
TRACK VR (-)
GND
P.CON 12V
AT 12V
AT 5V
P.CON 5V
SYSCON/TIMER RESET SIGNAL
IC601 OEC0008 CPU
Q603
Q604
Q605
IC602 LGV-4419 4304-012
TP601
TP602
AT 5V
SW601 TIMER REC
SW602 CLOCK D602 MODE SELECT
PROG
SW603 PG NO
SW604 DAY
SW605 HOUR
SW606 MIN
SW607 CH PRE
SW609 TIMER ON
SW610 TIMER OFF
SW611 STORE
Q621 FT UP BUFFER
SW613 TUING UP
SW614 TUNING DWN
SW615 CH UP
SW616 CH DWN
SW617 FINE T. UP
SW618 FINE T. DWN
SW619 CLOCK/COUNT
SW620 DIMMER
SW621 COUNT RESET
SW622 O.T.R
SW623 MEMORY
SW624 FF/CUE
SW625 REW/REV.
SW626 P/S
SW627 SLOW
SW628 STOP
SW629 A.DUB.
SW630 REC
SW631 PLAY
BAND INDICATOR ON/OFF
Q611 DTC124
Q612 DTC124
Q613 DTC124
SC INDICATOR ON/OFF
Q607 DTC124
D640 TLR-123
D641 TLR-123
D642 TLR-123
ON OFF AFT SW SW637
STEREO ON/OFF Q608 DTC124
CY0607 FROM/TO HI-FI
HEAD PHONE R-CH
HEAD PHONE L-CH
MPX
TUNER Ⓗ
AGC Ⓛ
STEREO Ⓛ
MONO Ⓛ
SAP Ⓛ
NORMAL Ⓗ
AUDIO CTRL LEVEL
CYC608 FROM/TO HI-FI
LINE IN Ⓗ
SC Ⓗ
SAP LED (-)
STEREO LED (-)
HI-FI LED (-)
LEVEL M.GND
VOLUME L-CH OUT
VOLUME L-CH IN
VOLUME GND
VOLUME R-CH IN
VOLUME R-CH OUT
P.CON. 12V
P.CON.5V
LINE SC TUNER INPUT SELECT SW632
ON OFF MPX FILTER SW633
ON OFF AGC ON/OFF SW634
MONO AUTO MODE SELECT SW635
L R ST.NOR. AUDIO SELECT SW636
TRACKING VOLUME VR601

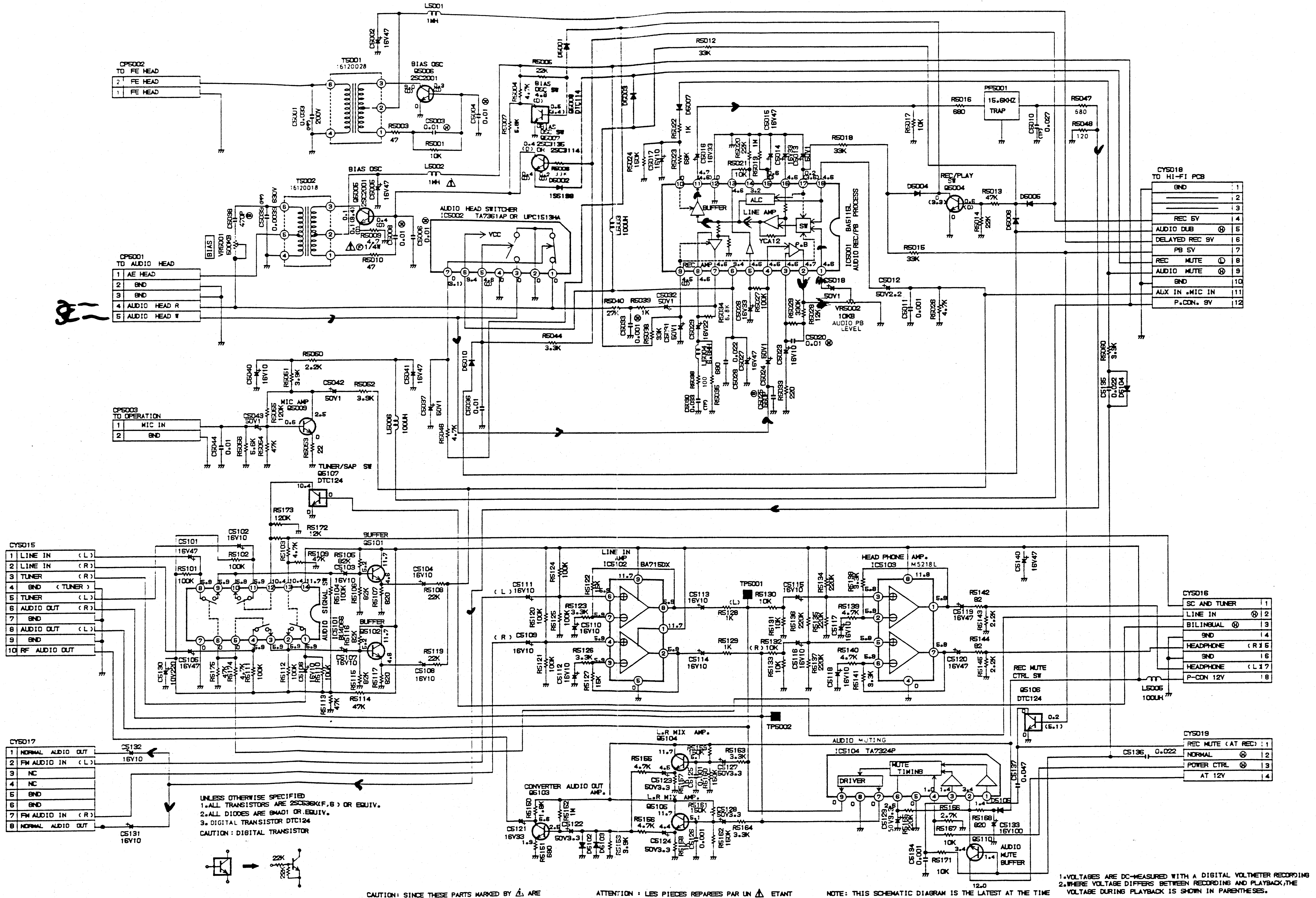
KEY NO.	FUNCTION
32	7
31	6
30	5
29	4
27	SLOW
25	STOP
24	FF/CUE
23	REW/REV
22	PLAY
21+22	REC
20	PAUSE/STILL
17	16
16	3
15	2
14	1
13	10
12	15
11	14
10	13
9	POWER
8	12
7	11
6	9
5	8

80

81

TIMER/OPERATION SCHEMATIC DIAGRAM

NORMAL AUDIO SCHEMATIC DIAGRAM


CP5002 TO FE HEAD
FE HEAD
CP5001 TO AUDIO HEAD
AE HEAD
GND
AUDIO HEAD R
AUDIO HEAD W
CP5003 TO OPERATION
MIC IN
GND
T5001
T5002
BIAS OSC Q5006 2SC2001
BIAS OSC
L5001 1MH
L5002 1MH
BIAS VR5001 500KB
BIAS OSC SW Q5008 DTC114
BIAS OSC SW Q5007 2SC3135 (2SC3114)
D5002 1SS188
AUDIO HEAD SWITCHER IC5002 TA7361AP OR UPC1513HA
VCC
IC5001 BA6116L AUDIO REC/PB PROCESS
BUFFER
ALC
LINE AMP
REC AMP
YCA12
SW
P.B
VR5002 10KB AUDIO PB LEVEL
PF5001 15.6KHZ TRAP
REC/PLAY SW Q5004
MIC AMP Q5005
TUNER/SAP SW Q5107 DTC124
CY5018 TO HI-FI PCB
GND
REC 5V
AUDIO DUB
DELAYED REC 9V
PB 5V
REC MUTE
AUDIO MUTE
AUX IN .MIC IN
P.CON. 9V
CY5015
LINE IN (L)
LINE IN (R)
TUNER (R)
GND (TUNER)
TUNER
AUDIO OUT (R)
AUDIO OUT (L)
RF AUDIO OUT
IC5101 BU4066 AUDIO SIGNAL SW
BUFFER Q5101
BUFFER Q5102
LINE IN AMP IC5102 BA715DX
TP5001
TP5002
HEAD PHONE AMP. IC5103 M5218L
CY5016
SC AND TUNER
LINE IN
BILINGUAL
HEADPHONE (R)
HEADPHONE (L)
P-CON 12V
L5005 100UH
REC MUTE CTRL SW Q5106 DTC124
CY5017
NORMAL AUDIO OUT
FM AUDIO IN (L)
NC
FM AUDIO IN (R)
L.R MIX AMP. Q5104
L.R MIX AMP. Q5105
CONVERTER AUDIO OUT AMP. Q5103
AUDIO MUTING IC5104 TA7324P
MUTE TIMING
DRIVER
Q5110 AUDIO MUTE BUFFER
CY5019
REC MUTE (AT REC)
NORMAL
POWER CTRL
AT 12V
22K

UNLESS OTHERWISE SPECIFIED
1. ALL TRANSISTORS ARE 2SC536K(F,G) OR EQUIV.
2. ALL DIODES ARE 8MA01 OR EQUIV.
3. DIGITAL TRANSISTOR DTC124
CAUTION : DIGITAL TRANSISTOR

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER RECORDING
2. WHERE VOLTAGE DIFFERS BETWEEN RECORDING AND PLAYBACK, THE VOLTAGE DURING PLAYBACK IS SHOWN IN PARENTHESES.

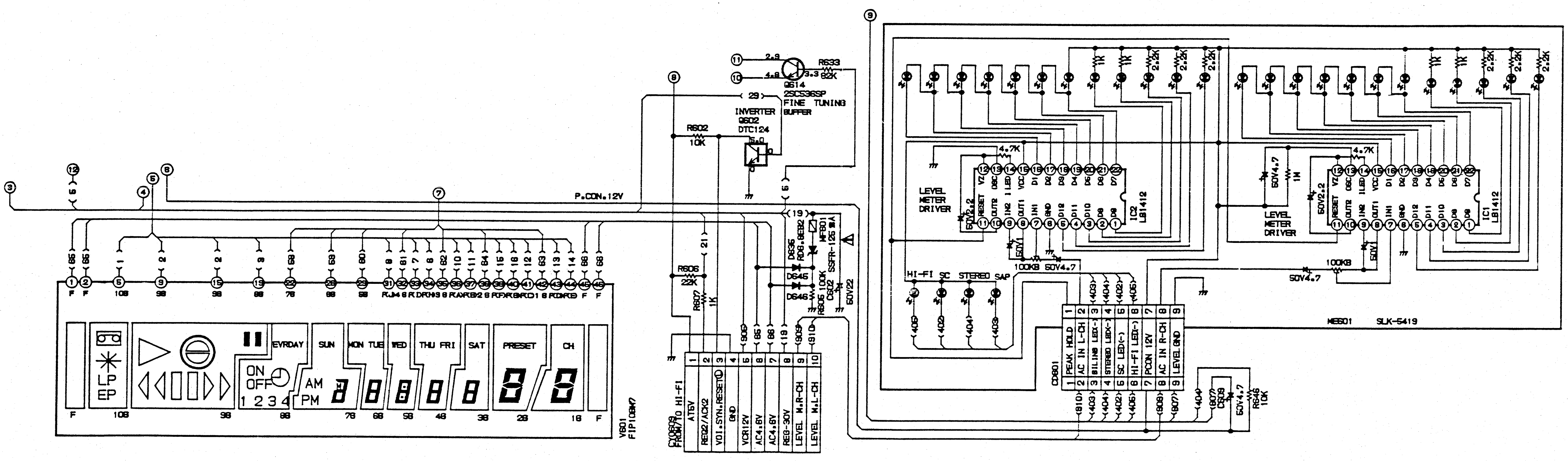
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY , USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION : LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NORMAL AUDIO SCHEMATIC DIAGRAM

TIMER/OPERATION SCHEMATIC DIAGRAM


P.CON.12V
EVRDAY
SUN
MON TUE
WED
THU FRI
SAT
PRESET
CH
LP
EP
ON
OFF
1 2 3 4
AM
PM
V601
FIP10BM7
CN609
FROM/TO HI-FI
AT5V
REG2/ACK2
VD1.SYN.RESET
GND
VCR12V
AC4.8V
REG-30V
LEVEL M.R-CH
LEVEL M.L-CH
Q614
2SC536SP
FINE TUNING
BUFFER
R633
82K
INVERTER
Q602
DTC124
R602
10K
R606
22K
R607
1K
D636
RD6.8EB2
D645
D646
MFR01
SSFR-125
LEVEL METER DRIVER
IC2
LB1412
IC1
LB1412
4.7K
2.2K
100KB
50V4.7
50V2.2
50V1
HI-FI
SC
STEREO
SAP
CN601
PEAK HOLD
AC IN L-CH
SILING LEX
STEREO LEX
SC LED(-)
HI-FI LED(-)
PCON 12V
AC IN R-CH
LEVEL GND
R646
10K
C639
ME601
SLK-5419

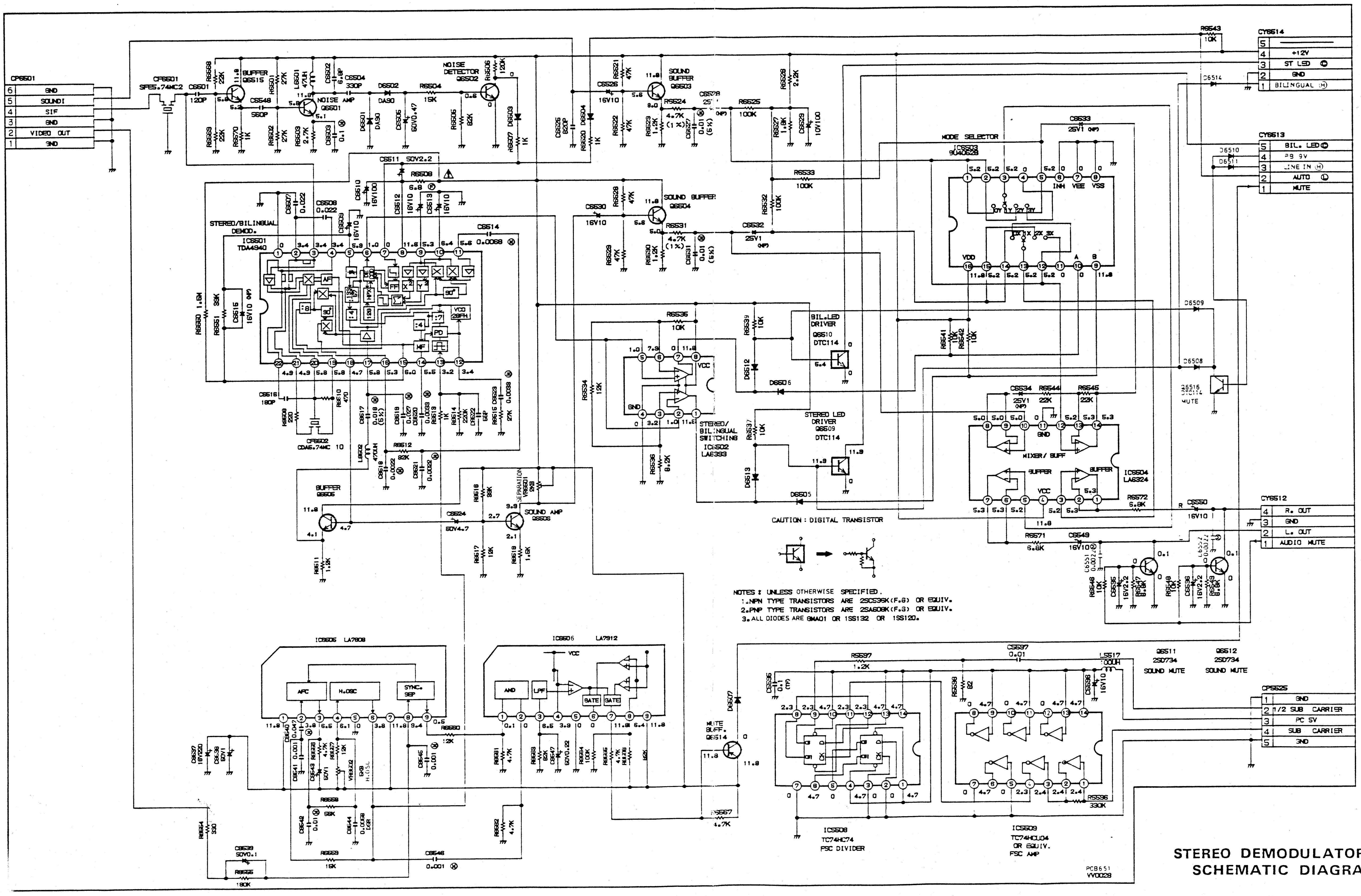
TIMER/OPERATION SCHEMATIC DIAGRAM

STEREO DEMODULATOR SCHEMATIC DIAGRAM

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY , USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION : LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

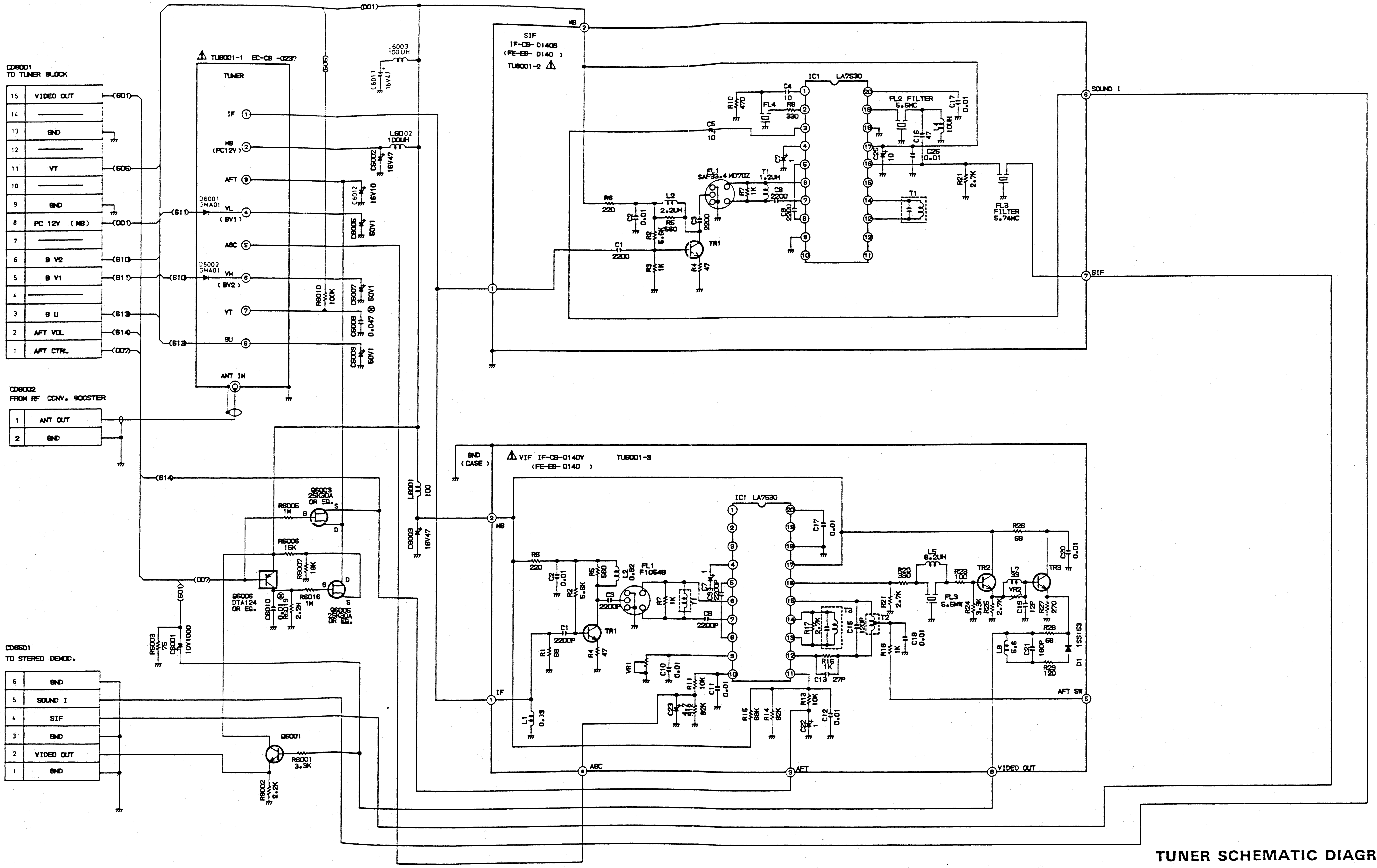
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.


CP6501
GND
SOUNDI
SIF
GND
VIDEO OUT
GND
CF6501
SFE5.74MC2
BUFFER Q6515
NOISE AMP Q6501
NOISE DETECTOR Q6502
SOUND BUFFER Q6503
SOUND BUFFER Q6504
STEREO/BILINGUAL DEMOD.
IC6501 TDA4940
VCO 28FH
CF6502 CDA5.74MC
BUFFER Q6505
SOUND AMP Q6506
SEPARATION VR6501
MODE SELECTOR IC6503 9U4052B
BIL. LED DRIVER Q6510 DTC114
STEREO LED DRIVER Q6509 DTC114
STEREO/BILINGUAL SWITCHING IC6502 LA6393
MIXER/ BUFF
BUFFER
IC6504 LA6324
CAUTION : DIGITAL TRANSISTOR
CY6514
+12V
ST LED Ⓒ
GND
BILINGUAL Ⓗ
CY6513
BIL. LED Ⓒ
P9 9V
LINE IN Ⓗ
AUTO Ⓛ
MUTE
CY6512
R. OUT
GND
L. OUT
AUDIO MUTE
IC6505 LA7808
AFC
H.OSC
SYNC. SEP
IC6506 LA7912
VCC
AND
LPF
GATE
MUTE BUFF. Q6514
IC6508 TC74HC74 FSC DIVIDER
IC6509 TC74HCU04 OR EQUIV. FSC AMP
Q6511 2SD734 SOUND MUTE
Q6512 2SD734 SOUND MUTE
CP5625
GND
1/2 SUB CARRIER
PC 5V
SUB CARRIER
GND
PCB651 VV0028

NOTES : UNLESS OTHERWISE SPECIFIED.
1. NPN TYPE TRANSISTORS ARE 2SC536K(F.G) OR EQUIV.
2. PNP TYPE TRANSISTORS ARE 2SA608K(F.G) OR EQUIV.
3. ALL DIODES ARE GMA01 OR 1SS132 OR 1SS120.

STEREO DEMODULATOR SCHEMATIC DIAGRAM

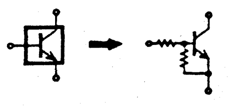
TUNER SCHEMATIC DIAGRAM



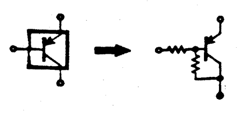
CD6001
TO TUNER BLOCK
15 VIDEO OUT
14
13 GND
12
11 VT
10
9 GND
8 PC 12V (MB)
7
6 B V2
5 B V1
4
3 B U
2 AFT VOL
1 AFT CTRL
CD6002
FROM RF CONV. BOOSTER
1 ANT OUT
2 GND
CD6601
TO STEREO DEMOD.
6 GND
5 SOUND I
4 SIF
3 GND
2 VIDEO OUT
1 GND
TU6001-1 EC-CB-0237
TUNER
IF
MB (PC12V)
AFT
VL (BV1)
ABC
VH (BV2)
VT
BU
ANT IN
D6001 GMA01
D6002 GMA01
L6003 100UH
C6011 16V47
L6002 100UH
C6002 16V47
C6012 16V10
C6005 50V1
R6010 100K
C6007 50V1
C6008 0.047
C6009 50V1
SIF
IF-CB-0140S
(FE-EB-0140)
TU6001-2
IC1 LA7530
R10 470
C4 10
FL4
R8 330
C5 10
FL2 FILTER 5.5MC
C17 0.01
C16 47
L1 10UH
C25 10
C26 0.01
R21 2.7K
FL3 FILTER 5.74MC
FL1 SAF33.4MD70Z
T1 1.2UH
R7 1K
C8 2200
C9 2200
R6 220
C2 0.01
L2 2.2UH
R5 560
C3 2200
R2 5.6K
C1 2200
TR1
R3 1K
R4 47
T1
SOUND I
SIF
MB
GND (CASE)
VIF IF-CB-0140V
(FE-EB-0140)
TU6001-3
IC1 LA7530
C17 0.01
R26 68
C20 0.01
L5 8.2UH
R20 330
R23 100
TR2
L7 33
TR3
FL3 5.5MHz
R24 3.3K
R25 2.7K
VR2
C19 12P
R27 270
R28 68
C21 180P
L8 5.6
D1 1SS153
R29 120
AFT SW
R8 220
C2 0.01
R2 5.6K
R5 560
L2 0.82
FL1 F1054B
C3 2200P
C7 1
R7 1K
C8 2200P
C1 2200P
TR1
R1 68
R4 47
VR1
C10 0.01
R11 10K
C11 0.01
C23
R12 82K
R21 2.7K
R17 2.7K
T3
C15 120P
T2
C18 0.01
R18 1K
R16 1K
C13 27P
R15 68K
R14 82K
R13 10K
C22
C12 0.01
L1 0.39
IF
ABC
AFT
VIDEO OUT
L6001 100
C6003 16V47
Q6003 2SK30A OR EQ.
R6005 1M
R6006 15K
R6007 18K
Q6006 DTA124 OR EQ.
C6010
R6015 2.2M
R6016 1M
Q6005 2SK30A OR EQ.
R6003 75
C6001 10V1000
Q6001
R6001 3.3K
R6002 2.2K
(601) (605) (611) (001) (610) (613) (614) (007) (D01) (605) (607)

TUNER SCHEMATIC DIAGRAM

CAUTION : DIGITAL TRANSISTOR



CAUTION : DIGITAL TRANSISTOR



CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY , USE ONES DESCRIBED ON PARTS LIST ONLY.

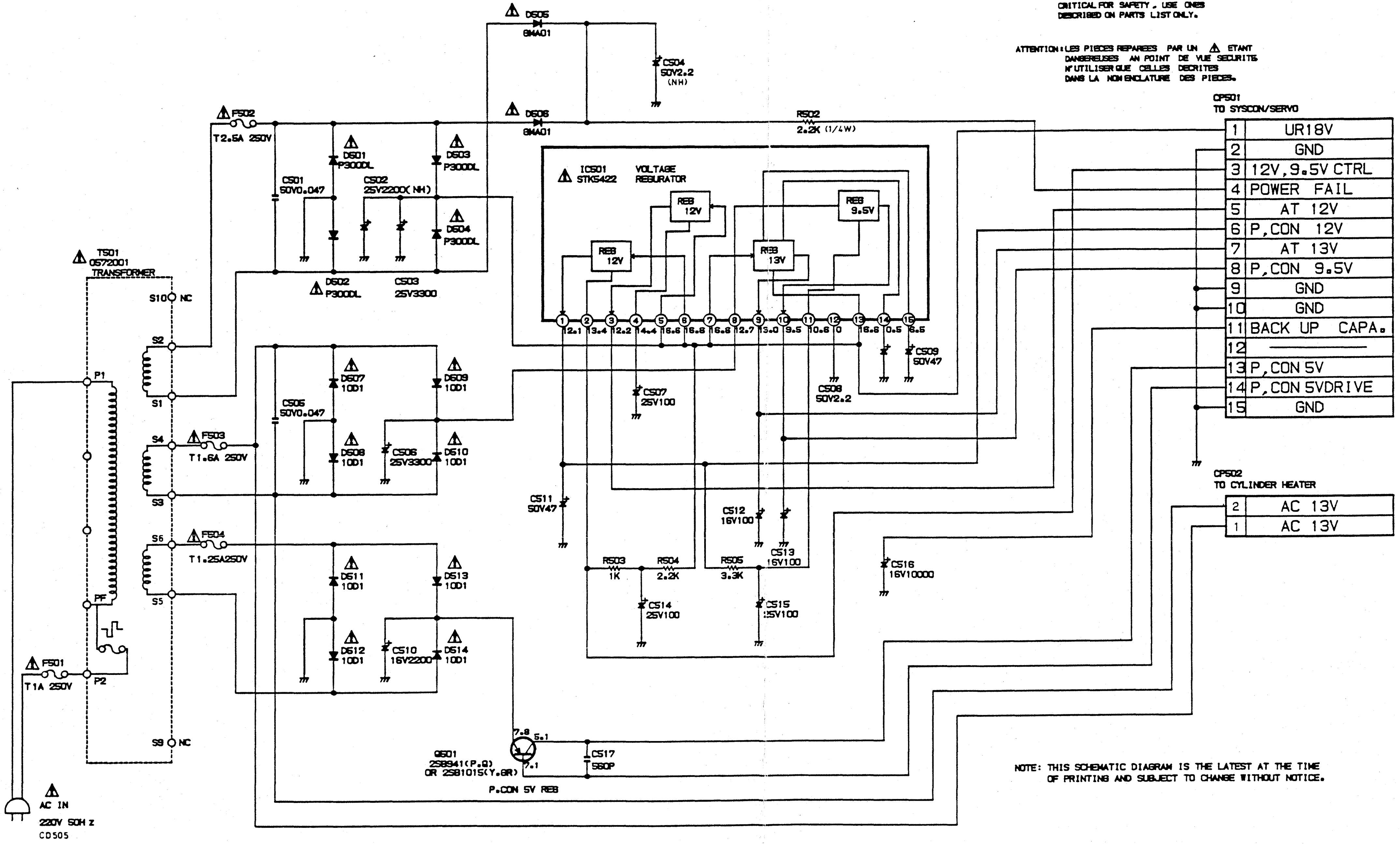
ATTENTION : LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

POWER SUPPLY SCHEMATIC DIAGRAM

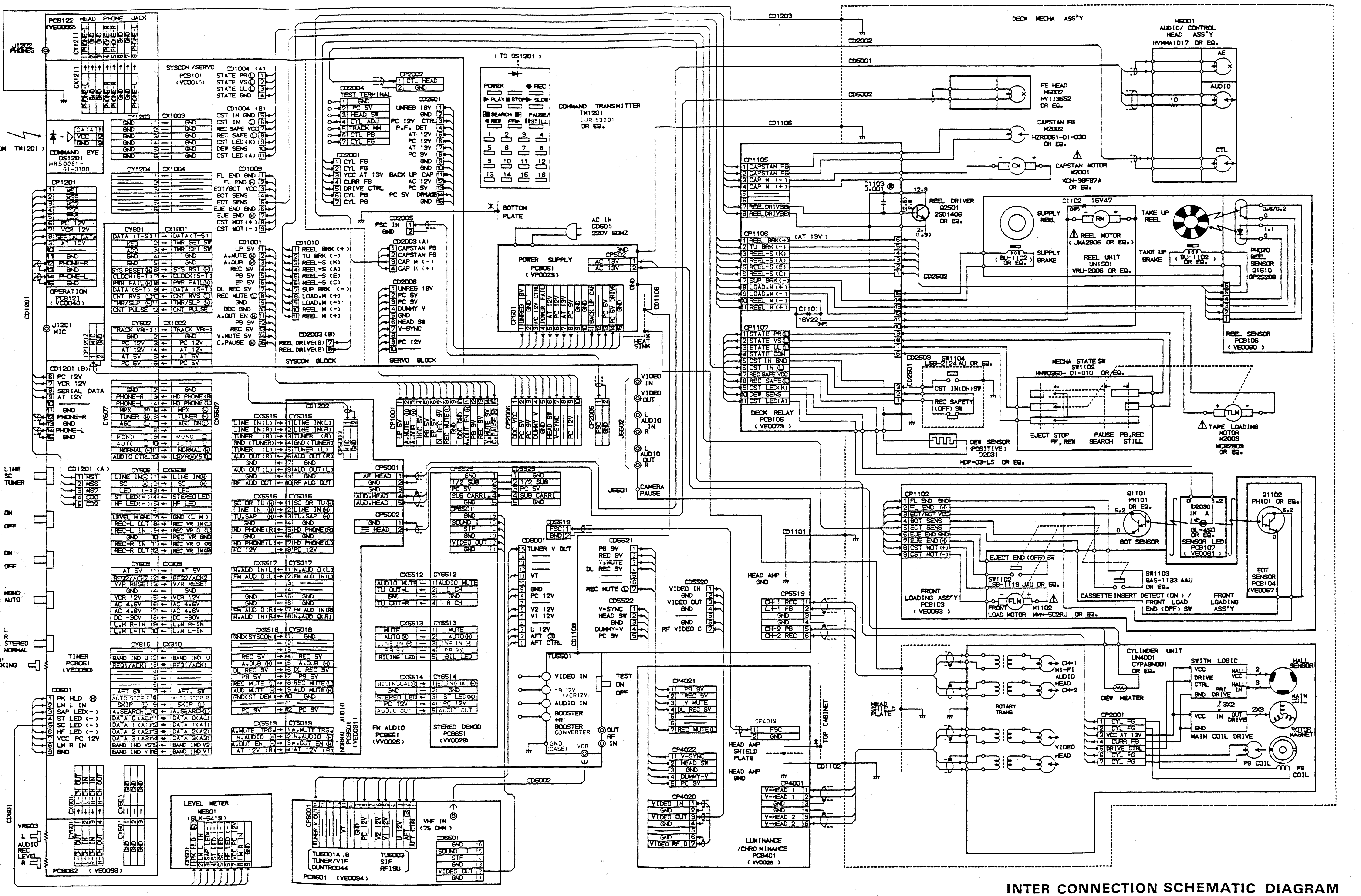
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE
CRITICAL FOR SAFETY, USE ONES
DESCRIBED ON PARTS LIST ONLY.

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITS
N'UTILISER QUE CELLES DECRITES
DANS LA NOMENCLATURE DES PIECES.


D505
8MA01
C504
50V2.2
(NH)
D506
8MA01
R502
2.2K (1/4W)
F502
T2.5A 250V
D501
P300DL
D503
P300DL
C501
50V0.047
C502
25V2200(NH)
D504
P300DL
D502
P300DL
C503
25V3300
T501
0572001
TRANSFORMER
S10 NC
S2
S1
P1
S4
S3
S6
S5
PF
P2
S9 NC
F501
T1A 250V
F503
T1.6A 250V
F504
T1.25A250V
C505
50V0.047
D507
10D1
D509
10D1
D508
10D1
C506
25V3300
D510
10D1
D511
10D1
D513
10D1
D512
10D1
C510
16V2200
D514
10D1
AC IN
220V 50Hz
CD505
IC501
STK5422
VOLTAGE
REGURATOR
REG
12V
REG
12V
REG
13V
REG
9.5V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
12.1
13.4
12.2
14.4
16.6
16.8
16.8
12.7
13.0
9.5
10.6
0
16.6
0.5
6.5
C509
50V47
C507
25V100
C508
50V2.2
C511
50V47
C512
16V100
C513
16V100
R503
1K
R504
2.2K
R505
3.3K
C514
25V100
C515
25V100
C516
16V10000
Q501
2SB941(P.Q)
OR 2SB1015(Y.GR)
7.8
5.1
7.1
C517
560P
P.CON 5V REG
CP501
TO SYSCON/SERVO
1 UR18V
2 GND
3 12V,9.5V CTRL
4 POWER FAIL
5 AT 12V
6 P,CON 12V
7 AT 13V
8 P,CON 9.5V
9 GND
10 GND
11 BACK UP CAPA.
12 ——————
13 P,CON 5V
14 P,CON 5VDRIVE
15 GND
CP502
TO CYLINDER HEATER
2 AC 13V
1 AC 13V

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

INTER CONNECTION SCHEMATIC DIAGRAM


PCB122 HEAD PHONE JACK (VED0092)
J1202 PHONES
COMMAND EYE OS1201 HRS0081-01-0100
(FROM TM1201)
OPERATION PCB121 (VC0040)
J1201 MIC
SYSCON/SERVO PCB101 (VC0045)
SYSCON BLOCK
SERVO BLOCK
(TO OS1201)
COMMAND TRANSMITTER TM1201 EUR-53201 OR EQ.
BOTTOM PLATE
AC IN CD505 220V 50HZ
POWER SUPPLY PCB051 (VP0023)
HEAT SINK
DECK MECHA ASS'Y
H5001 AUDIO/CONTROL HEAD ASS'Y HVMMA1017 OR EQ.
AE
AUDIO
CTL
FE HEAD H5002 HVI13652 OR EQ.
CAPSTAN FG H2002 HZR0051-01-030 OR EQ.
CAPSTAN MOTOR M2001 KCN-38FS7A OR EQ.
REEL DRIVER Q2501 2SD1406 OR EQ.
SUPPLY REEL
TAKE UP REEL
REEL MOTOR (JMA2806 OR EQ.)
REEL UNIT UN1501 VRU-2006 OR EQ.
SUPPLY BRAKE
TAKE UP BRAKE
PHOTO REEL SENSOR Q1510 SP2S208
REEL SENSOR PCB106 (VED080)
DECK RELAY PCB105 (VED079)
MECHA STATE SW SW1102 HMW0350-01-010 OR EQ.
EJECT STOP FF, REW
PAUSE SEARCH
PB, REC STILL
TAPE LOADING MOTOR M2003 MCB2809 OR EQ.
DEW SENSOR (POSITIVE) D2031 HDP-03-LS OR EQ.
BOT SENSOR
SENSOR LED PCB107 (VED081)
EOT SENSOR PCB104 (VED067)
FRONT LOADING ASS'Y PCB103 (VED063)
FRONT LOAD MOTOR M1102 MHN-5C2RJ OR EQ.
CASSETTE INSERT DETECT (ON) / FRONT LOAD END (OFF) SW
FRONT LOADING ASS'Y
HEAD AMP GND
CYLINDER UNIT UN4001 CYPA9N001 OR EQ.
DEW HEATER
ROTARY TRANS
CH-1 HI-FI AUDIO HEAD CH-2
VIDEO HEAD
SWITH LOGIC
HALL SENSOR
MAIN COIL
ROTOR MAGNET
MAIN COIL DRIVE
PG COIL
FG COIL
HEAD SHIELD PLATE
TOP CABINET
LUMINANCE /CHRO MINANCE PCB401 (VV0029)
TU5501
VIDEO IN
AUDIO IN
BOOSTER CONVERTER
TEST ON OFF
OUT RF IN
J5501 CAMERA PAUSE
VIDEO IN
VIDEO OUT
L AUDIO IN R
L AUDIO OUT R
FM AUDIO PCB551 (VV0026)
NORMAL AUDIO PCB501 (VV0025)
STEREO DEMOD PCB651 (VV0028)
TIMER PCB061 (VED090)
SW632 INPUT SELECT LINE SC TUNER
SW633 MPX FILTER ON OFF
SW634 AGC ON OFF
SW635 MODE MONO AUTO
SW636 AUDIO SELECT L R STEREO NORMAL
VR601 TRACKING
VR603 L AUDIO REC LEVEL R
PCB062 (VED093)
LEVEL METER ME601 (SLK-5419)
TU6001A,B TUNER/VIF DUNTRC044
TU6003 SIF RF1SU
PCB601 (VED094)
VHF IN (75 OHM)

INTER CONNECTION SCHEMATIC DIAGRAM

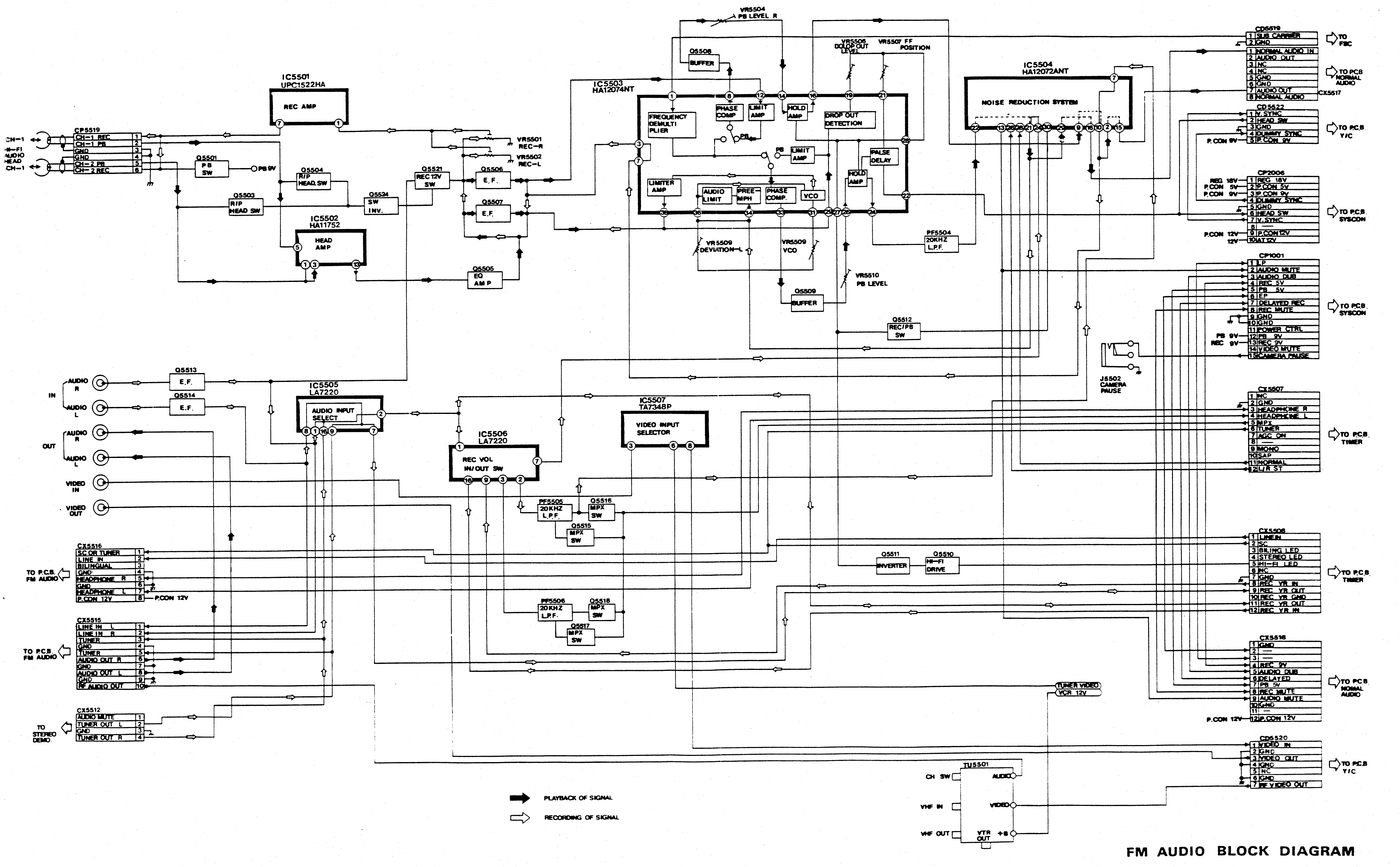
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

* : CONNECTED BY EARTH SPRING.

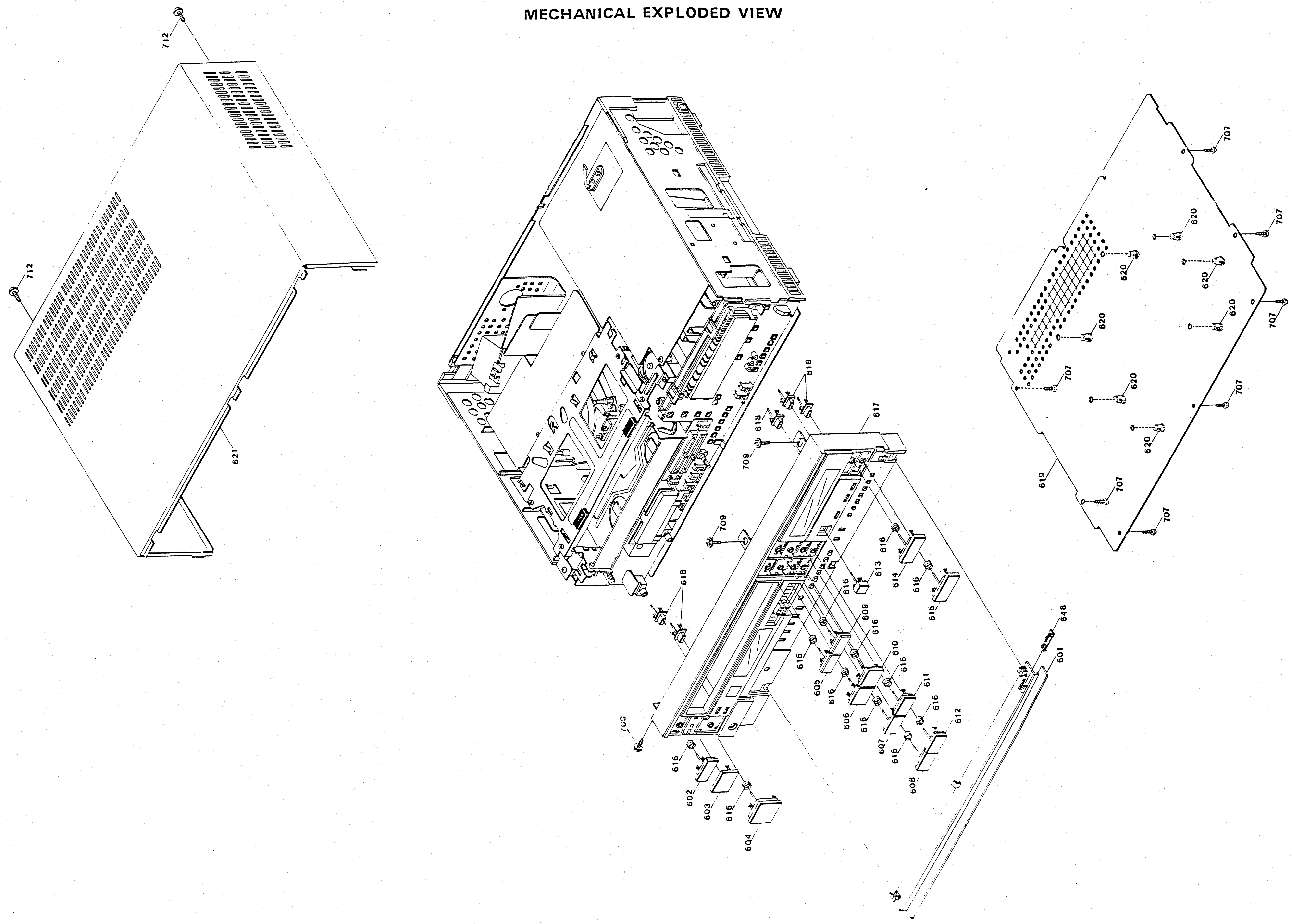
FM AUDIO BLOCK DIAGRAM


CH-1
HI-FI AUDIO HEAD
CH-1
CP5519
1 CH-1 REC
2 CH-1 PB
3 GND
4 GND
5 CH-2 PB
6 CH-2 REC
Q5501 PB SW
PB 9V
Q5503 R/P HEAD SW
Q5504 R/P HEAD SW
IC5501 UPC1522HA
REC AMP
IC5502 HA11752
HEAD AMP
Q5524 SW INV.
Q5521 REC 12V SW
Q5505 EQ AMP
VR5501 REC-R
VR5502 REC-L
Q5506 E.F.
Q5507 E.F.
VR5504 PB LEVEL R
Q5508 BUFFER
IC5503 HA12074NT
FREQUENCY DEMULTIPLIER
PHASE COMP
LIMIT AMP
HOLD AMP
VR5506 DOLOP OUT LEVEL
VR5507 FF POSITION
DROP OUT DETECTION
PB
LIMIT AMP
PALSE DELAY
HOLD AMP
LIMITER AMP
AUDIO LIMIT
PREE-MPH
PHASE COMP.
VCO
VR5509 DEVIATION-L
VR5509 VCO
VR5510 PB LEVEL
Q5509 BUFFER
PF5504 20KHZ L.P.F.
Q5512 REC/PB SW
IC5504 HA12072ANT
NOISE REDUCTION SYSTEM
CD5519
1 SUB CARRIER
2 GND
TO FSC
1 NORMAL AUDIO IN
2 AUDIO OUT
3 NC
4 NC
5 GND
6 GND
7 AUDIO OUT
8 NORMAL AUDIO
CX5517
TO PCB NORMAL AUDIO
CD5522
1 V.SYNC
2 HEAD SW
3 GND
4 DUMMY SYNC
5 P.CON 9V
P.CON 9V
TO P.C.B Y/C
CP2006
1 REG 18V
2 P.CON 5V
3 P.CON 9V
4 DUMMY SYNC
5 GND
6 HEAD SW
7 V.SYNC
8 —
9 P.CON 12V
10 AT 12V
REG 18V
P.CON 5V
P.CON 9V
P.CON 12V
12V
TO P.C.B. SYSCON
CP1001
1 LP
2 AUDIO MUTE
3 AUDIO DUB
4 REC 5V
5 PB 5V
6 EP
7 DELAYED REC
8 REC MUTE
9 GND
10 GND
11 POWER CTRL
12 PB 9V
13 REC 9V
14 VIDEO MUTE
15 CAMERA PAUSE
PB 9V
REC 9V
TO P.C.B. SYSCON
J5502 CAMERA PAUSE
AUDIO R
IN
AUDIO L
AUDIO R
OUT
AUDIO L
VIDEO IN
VIDEO OUT
Q5513 E.F.
Q5514 E.F.
IC5505 LA7220
AUDIO INPUT SELECT
IC5506 LA7220
REC VOL IN/OUT SW
IC5507 TA7348P
VIDEO INPUT SELECTOR
PF5505 20KHZ L.P.F.
Q5516 MPX SW
Q5515 MPX SW
PF5506 20KHZ L.P.F.
Q5518 MPX SW
Q5517 MPX SW
Q5511 INVERTER
Q5510 HI-FI DRIVE
CX5507
1 NC
2 GND
3 HEADPHONE R
4 HEADPHONE L
5 MPX
6 TUNER
7 AGC ON
8 —
9 MONO
10 SAP
11 NORMAL
12 L/R ST
TO P.C.B. TIMER
CX5516
SC OR TUNER 1
LINE IN 2
BILINGUAL 3
GND 4
HEADPHONE R 5
GND 6
HEADPHONE L 7
P.CON 12V 8
P.CON 12V
TO P.C.B. FM AUDIO
CX5515
LINE IN L 1
LINE IN R 2
TUNER 3
GND 4
TUNER 5
AUDIO OUT R 6
GND 7
AUDIO OUT L 8
GND 9
RF AUDIO OUT 10
TO P.C.B. FM AUDIO
CX5512
AUDIO MUTE 1
TUNER OUT L 2
GND 3
TUNER OUT R 4
TO STEREO DEMO.
CX5508
1 LINE IN
2 SC
3 BILING LED
4 STEREO LED
5 HI-FI LED
6 NC
7 GND
8 REC YR IN
9 REC YR OUT
10 REC YR GND
11 REC YR OUT
12 REC YR IN
TO P.C.B TIMER
CX5518
1 GND
2 —
3 —
4 REC 9V
5 AUDIO DUB
6 DELAYED
7 PB 5V
8 REC MUTE
9 AUDIO MUTE
10 GND
11 —
12 P.CON 12V
P.CON 12V
TO PCB NOMAL AUDIO
TUNER VIDEO
VCR 12V
CD5520
1 VIDEO IN
2 GND
3 VIDEO OUT
4 GND
5 NC
6 GND
7 RF VIDEO OUT
TO P.C.B Y/C
TU5501
CH SW
AUDIO
VHF IN
VIDEO
VHF OUT
VTR OUT
+B
PLAYBACK OF SIGNAL
RECORDING OF SIGNAL

FM AUDIO BLOCK DIAGRAM

VH-2004 HS

MECHANICAL EXPLODED VIEW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MECHANICAL EXPLODED VIEW

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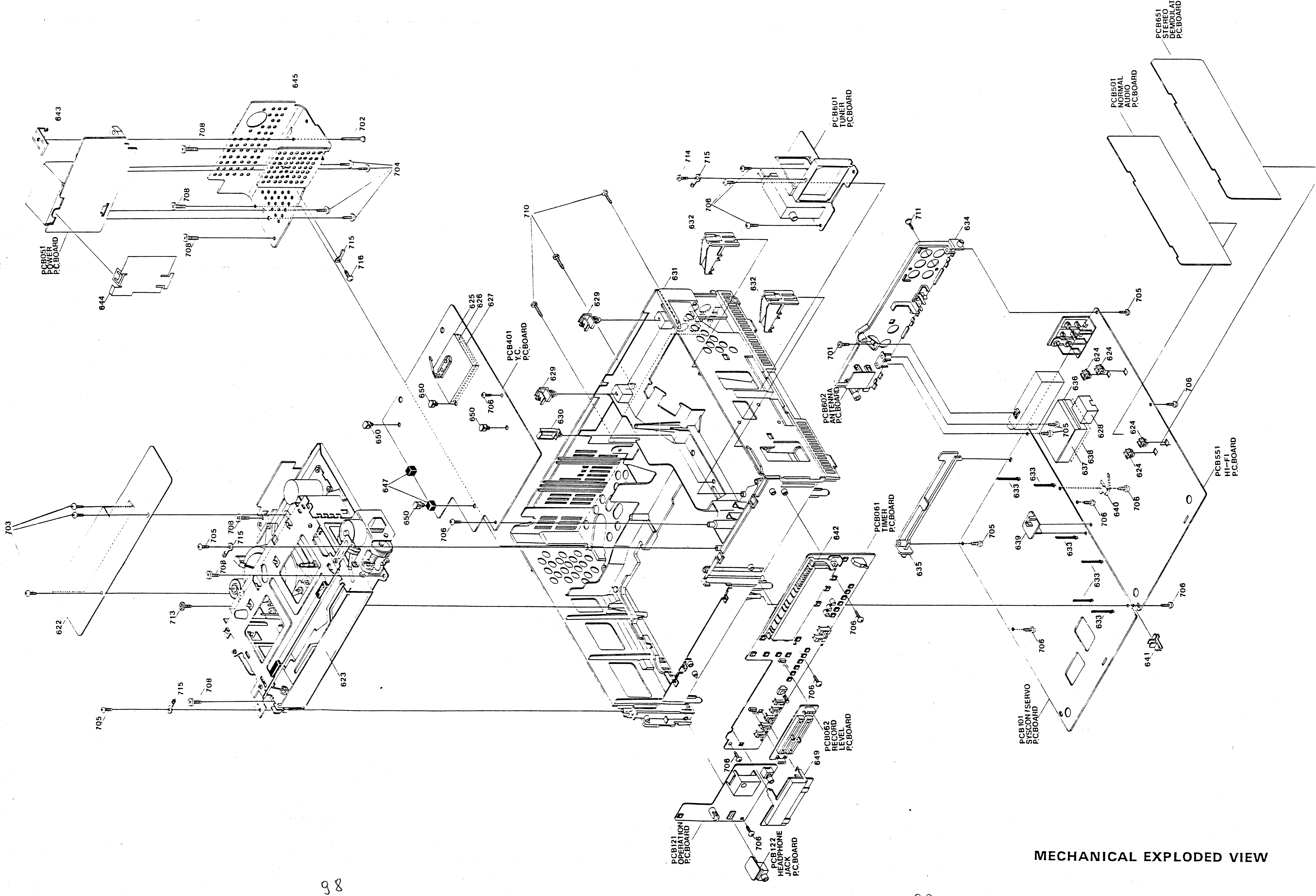
97

MECHANICAL EXPLODED VIEW


645
643
708
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708
PCB051 POWER P.C.BOARD
644
715
716
714
715
706
PCB601 TUNER P.C.BOARD
PCB501 NORMAL AUDIO P.C.BOARD
PCB651 STEREO DEMODULATOR P.C.BOARD
710
632
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PCB401 Y.C. P.C.BOARD
650
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647
650
706
711
634
701
PCB602 ANTENNA P.C.BOARD
705
624
624
636
706
705
628
637
638
624
624
PCB551 HI-FI P.C.BOARD
633
633
640
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633
633
706
641
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705
635
PCB061 TIMER P.C.BOARD
642
706
706
PCB062 RECORD LEVEL P.C.BOARD
649
706
PCB121 OPERATION P.C.BOARD
706
PCB122 HEADPHONE JACK P.C.BOARD
PCB101 SYSCON/SERVO P.C.BOARD
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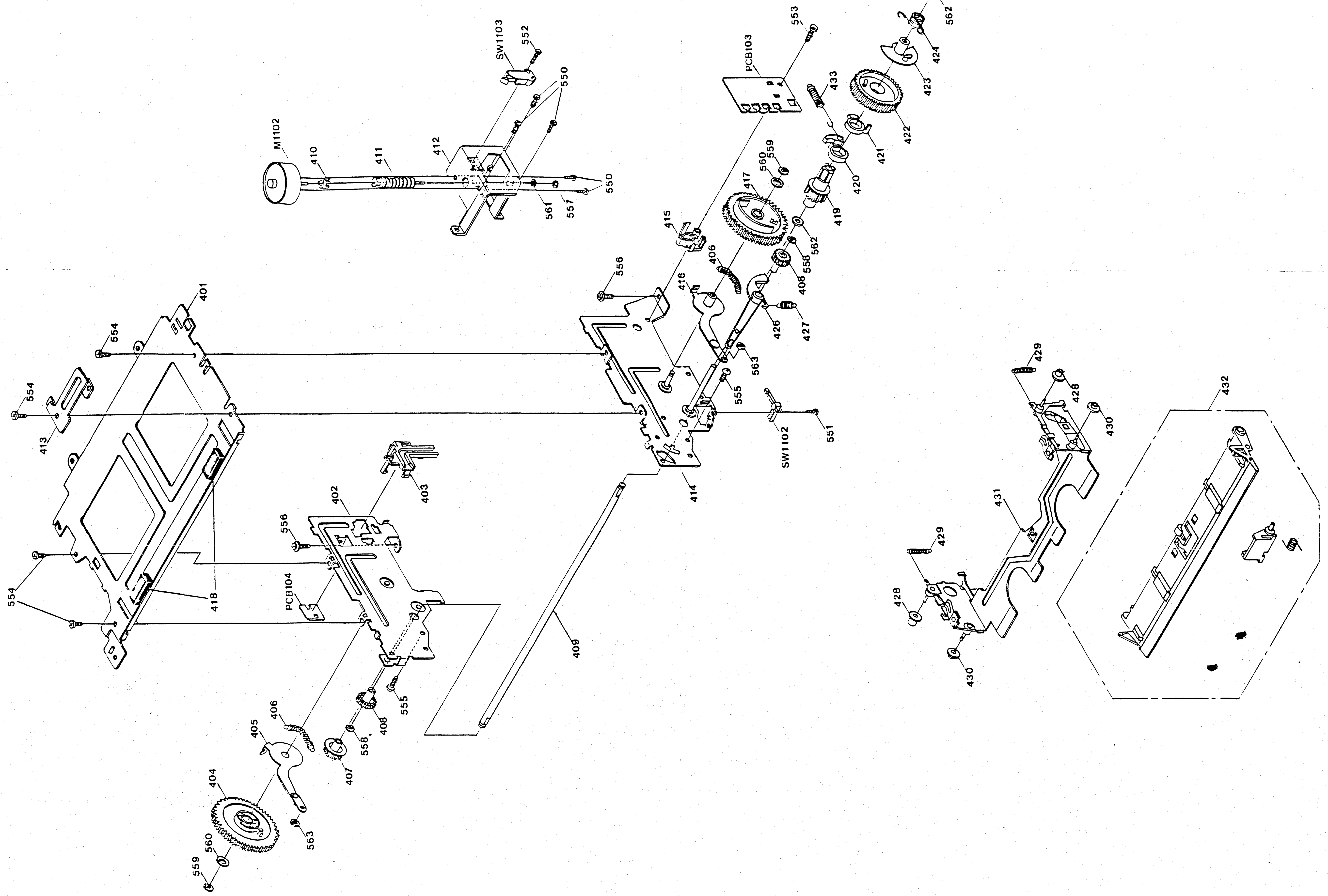
MECHANICAL EXPLODED VIEW

DECK EXPLODED VIEW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SW1103
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PCB103
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SW1102
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PCB104
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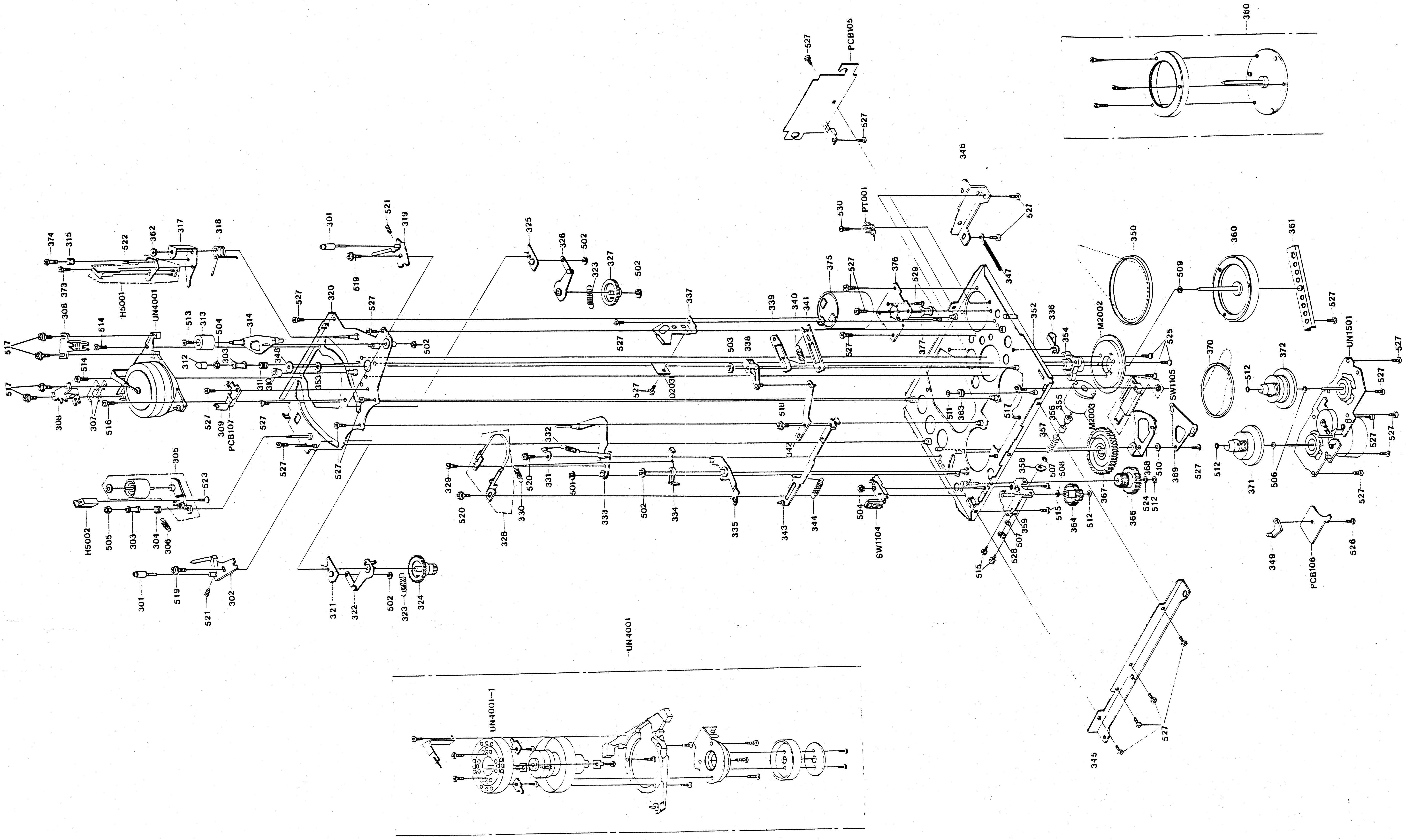
DECK EXPLODED VIEW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PCB105
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PT001
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UN1501
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H5001
UN4001
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M2002
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D203
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M2003
SW1105
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PCB107
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SW1104
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H5002
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PCB106
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527
UN4001
UN4001-1

DECK EXPLODED VIEW

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
601	712JPJ0090	Door	
	7230000958	Label, AFT	
602	735JPD0022	Button, Eject	
603	735JPA0197	Button, Dummy	
604	735JPD0021	Button, Power	
	713JPA0070	Glass, L.E.D.	
605	735JPD0026	Button, Deck REW	
606	735JPD0027	Button, Deck PLAY	
607	735JPD0023	Button, Deck PAUSE	
608	735JPD0024	Button, Deck AUDIO	
609	735JPD0025	Button, Deck FF	
610	735JPD0028	Button, Deck STOP	
611	735JPD0045	Button, Deck SLOW	
612	735JPD0030	Button, Deck REC	
613	735JPA0206	Button, Push (2)	
614	735JPD0019	Button, Channel Up	
615	735JPD0020	Button, Channel Down	
616	742JUA0018	Spring, Button (B)	
617	701JPJ0314	Cabinet, Front	
	8109126802	Screw, Tapping B	2.6x8 Black
	873JPA0004	Plate, Scale	
	713JPA0082	Glass, L.E.D.	
	7210000127	Plate, Slide Scale	
	7230000938	Plate, Control	
	7230000937	Plate, Display	
	7230000924	Sheet, Display	
	7230000925	Sheet, Receiver	
	7240000222	Sheet, Operation	
	7290000076	Tape, Front (1)	
	7290000077	Tape, Front (2)	
	7290000078	Tape, Front (3)	
	7290000079	Tape, Front (4)	
	733JPA0032	Base, Slide Knob	
	733JPA0030	Knob, Slide	
618	735JPA0205	Button, Push (1)	
619	702JSA0007	Plate, Bottom	
620	890KGPS6R0	Card, Spacer	
621	702JSS0014	Cabinet, Top	
	752JNA0002	Sheet, Cabinet Top	
622	752JSA0151	Plate, Shield Head	
	753JEA0005	Spring, Earth Bottom	
623	7230000939	Flap	
624	890UEGR080	Base, P.C.B. Support	
625	752JSA0146	Shield Plate, Head Amp	
	753JEA0003	Spring, Earth	
626	752JSA0120	Shield, Case	
627	752JSA0121	Shield, Lid	
628	752JSA0147	Plate, Shield	
629	890D163300	Hinge, P.C.B.	
630	899LWS3NA0	Wire, Saddles	
631	761JPA0038	Cabinet, Inside	
	704JVA0004	Felt, Pad	
	7232020121	Sheet, Rating	
632	715JPA0009	Holder, P.C.B.	
633	899000CP1S	Coating Clip	CP-1S
634	771JPA0043	Plate, Jack	

REF. NO.	PART NO.	DESCRIPTION	
635	761JPA0024	Frame, P.C.B.	
636	752JSA0130	Shield, Lid	
637	752JSA0131	Shield, Case	
638	752JSA0132	Shield, Plate	
639	762JPA0014	Wire Clamp	
640	744JUA0039	Spring, Earth	
641	762JPA0013	Holder, P.C.B.	
642	715JPA0008	Holder, Clock	
643	761JSA0245	Angle, Power IC	
644	755JNA0017	Cover, Fuse	
645	763JEA0006	Heat Sink, Power	
647	800JF00095	Cushion	10x10x9t
648	735JPA0207	Knob, AFC	
649	753JBA0001	Cover, Level Meter	
650	890MPS0600	Mini Card, Spacer	MPS-06-0
701	8102230601	Screw, Bind	M3x6
702	8102230B01	Screw, Flat	3x20
703	8107630604	Screw, Tap Tite (S)	3x6
704	8107640A04	Screw, Tap Tite (S)	4x10
705	8110630801	Screw, Tap Tite (P)	3x8
706	8110630808	Screw, Tap Tite (P)	3x8 Red
707	8110630802	Screw, Tap Tite (P)	3x8 Black
708	8112240A21	Screw, Tapping BO	4x12
709	8117E30A28	Screw, Tapping B (W/H 10φ)	3x12
710	8117230A42	Screw, Tapping B Bind	3x14 Black
711	8117330A01	Screw, Tapping B Flat	3x10
712	8117540A22	Screw, Tapping B Truss	4x12 Black
713	8117F40A21	Screw, Tapping B (W/H 12φ)	4x12
714	8102230501	Screw, Bind Head	M3x5
715	901B040000	Earth Lug	3.2 (B4)
716	8109640A04	Screw, Tap Tite (B) Truss	4x10
-	779JPA0012	Holder, L.E.D.	
-	779JPA0014	Holder, L.E.D.	
-	791JHA0058	Gift Sheet	
-	792JHA0110	Package, Left	
-	792JHA0111	Package, Right	
-	793JCA0016	Pad	
-	793JCD1175	Gift Box	
-	8995167000	Band, Cord Clamp	

DECK REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
301	850A400036	Guide Roller Ass'y
302	850A400004	Inclined Base L Ass'y
303	850P400056	Post, Sleeve
304	850P800032	Spring, P1
305	850A500002	FE Head Arm Ass'y
306	850P800033	Spring, FE Head Arm
307	850P400040	Spacer-C
308	850P300024	Stopper, Post
309	850P700015	Holder, LED
310	850P500006	Adjust Nut X-2
311	850P800042	Spring, P4
312	850P400057	Guard Cap C
313	850A400018	Pinch Roller Ass'y
314	850A400017	Pinch Roller Arm Ass'y
315	850P800009	Spring, Azimuth
317	850P500009	AC Head Base
318	850P800008	Spring, AC Head Base
319	850A400005	Inclined Base R Ass'y
320	850A100005	Loading Base Ass'y
321	850A300007	Slider L Ass'y
322	850A300004	Loading Arm L Ass'y
323	850P800006	Spring, Loading Gear
324	850A300010	Loading Gear L Ass'y
325	850A300008	Slider R Ass'y
326	850A300005	Loading Arm R Ass'y
327	850A300011	Loading Gear R Ass'y
328	850A600017	Tension Band Ass'y
329	840R760001	Collar Screw
330	850P800052	Spring, Sub Brake
331	850P600049	Plate, Adjust Tension
332	850P800027	Spring, Tension Arm
333	850A400031	Tension Arm Ass'y
334	850A600035	Brake Arm Ass'y
335	850A600013	Connect Lever Ass'y
336	899NAD0300	Speed Clamp
337	850A000005	Opener Ass'y
338	850A600015	Connect Arm Ass'y
339	850P600013	Damper Plate U
340	850P800004	Spring, Pinch Roller
341	850P600014	Damper Plate L
342	850P600050	Connect Rod B
343	850A600014	Connect Rod A Ass'y
344	850P800031	Spring, Connect Rod A
345	761JSA0229	Frame, Deck Front
346	761JSA0230	Frame, Deck Back
347	899PEC0340	Cord Clamp No. PEC-0340-0 DIA 3
348	850P400038	Washer, Oil Shield (N)
349	850P700017	Holder, Photo Interrupter
350	850P600022	Belt, Capstan
352	850A000004	Main Chassis Ass'y
353	850P400041	Sponge, Oil Stock
354	850A400033	Capstan, Flange Ass'y(N)
355	850P300033	Worm Joint

REF. NO.	PART NO.	DESCRIPTION	
356	850P300048	Bush Rubber	
357	850A300009	Worm Ass'y	
358	850P300026	Bearing, Worm	
359	850A300017	Bracket Loading Moter Ass'y	
360	850A400034	Flywheel Capstan Ass'y (N)	
361	850P400082	Holder, Flywheel	
362	850P500010	Adjust Nut	
363	850P600056	Pulley	
364	850P300035	Gear A	
366	850P300042	Gear D	
367	850P300038	Cam Gear	
368	850A300015	Fan-Shaped Gear Ass'y	
369	850P300039	Plate, Loading Gear	
370	850P700023	Belt Pulley	
371	850U200003	Reel Disk Supply Unit	
372	850U200004	Reel Disk Take Up Unit	
373	86702HH804	Screw, +Upset	M3x8
374	867512HA34	Joint Screw, +Bind	3x13x4
375	1594928003	Motor, Capstan	
376	850P600070	Bracket, Capstan Motor	
377	850P600062	Pulley, Capstan Motor	
401	850P900179	Bracket, Top	
402	850A900033	Side Bracket L Ass'y	
403	850P900085	End Sensor Holder L	
404	850P900076	Link Gear L	
405	850A900015	Link Arm L Ass'y	
406	850P800023	Spring, Link Gear	
407	850P900078	Transfer Gear L	
408	850P900075	Synchro Gear	
409	850P900169	Shaft, Synchro	
410	850P900083	Worm Driver	
411	850A900019	Worm Ass'y	
412	850P900073	Motor Bracket	
413	850P900180	Bracket, Stage	
414	850A900032	Side, Bracket R Ass'y	
415	850P900086	End Sensor Holder R	
416	850A900016	Link Arm R Ass'y	
417	850P900077	Link Gear R	
418	800JF00089	Cushion	10x20x5t
419	850P900079	Transfer Gear R	
420	850P900094	Stopper 2	
421	850P900082	Stopper 1	
422	850P900100	Worm Wheel	
423	850P900080	Clutch	
424	850P800051	Spring, Clutch	
426	850P900165	Flap, Opener	
427	850P900171	Spring, Opener	
428	850P900088	Roller 2	
429	850P900170	Spring, Locker	
430	850P900087	Roller 1	
431	850A900034	Cass, Holder Ass'y	
432	850A900036	Tape Guide Piece Ass'y	
433	850P800025	Spring, Stopper 2	

REF. NO.	PART NO.	DESCRIPTION	
CP1102	0694190070	Connector P.C.B. Side	172683-9 UX-H
CP1105	0694180079	Connector P.C.B. Side	6-172683-8 UX-H
CP1106	06941B0079	Connector P.C.B. Side	7-172683-1 UX-H
CP1107	06941B0070	Connector P.C.B. Side	1-172683-1 UX-H
R3090	R011T6151J	RC ERD-16TJ151T	150 OHM 1/6W
C1101	E03N02220M	CE USP1C220NCP	22 µF 16V
C1102	E03N02470M	CE USP1C470MCA1	44 µF 16V
C1103	C010B0413K	CC ECKF1HM102KB	0.001 µF 50V
C2019	P111T0122J	CP ECQM1H122JZ3	0.0012 µF 50V
D2030	0021G25010	LED	GL450
D2031	DAK0000040	Dew Sensor	HDP-03-L
H5001	1523D91001	Head, Audio Control	HV225635
H5002	1543D02001	Head, Full Erase	HV113552
M1102	1596958002	Motor Loding	MMN-5C2RJ
M2002	1598G00003	FG Stater	HZR0051-01-030
M2003	1596958001	Motor, Loading	MXN-12AD12F
PCB103	13VE0063B1	P.C.B.	VE0063B
PCB104	13VE0067B1	P.C.B.	VE0067B
PCB105	13VE0079D1	P.C.B.	VE0079D
PCB106	13VE0080D1	P.C.B.	VE0080D
PCB107	13VE0081D1	P.C.B.	VE0081D
PT1001	1261000004	Lug, Pin	21009
Q1510	0002G00010	Photo Coupler	GP2S02
Q1101	0000200010	Transistor Photo	PH101
Q1102	0000200010	Transistor Photo	PH101
Q2501	TD50014060	Transistor, Silicon	2SD1406
SW1102	0550I11008	Switch, Leaf	LSB-1119JAU
SW1103	0551I11001	Switch, Skelton	QAS-1133AAU
SW1104	0550I22001	Switch, Leaf	LSB-2124AU
SW1105	0510331006	Switch, Slide	HMW0350-01-0101
UN1501	1592300005	Unit, Reel Motor	VRU2006
UN4001	1590D00012	Unit, Cylinder	CYPAPN001

REF. NO.	PART NO.	DESCRIPTION	
501	867NETW251	E-Ring	2.5φ
502	867NETW301	E-Ring	3.0φ
503	867NETW401	E-Ring	4.0φ
504	867N002304	Nut	M3
505	867N007304	Nylon Nut	M3
506	867WP3144E	Polyslider Washer	3.1x4.4x0.13t
	867WP3144J	Polyslider Washer	3.1x4.4x0.25t
	867WP3144Q	Polyslider Washer	3.1x4.4x0.5t
507	867WP3154E	Polyslider Washer	3.1x5.4x0.13t
508	867WP3154J	Polyslider Washer	3.1x5.4x0.25t
509	867WP3670N	Polyslider Washer	3.6x7x0.4t
510	867WP5090W	Polyslider Washer	5x9x1t
511	867WQ1747N	Polyslider Washer(Cut)	1.7x4.7x0.4t
512	867WQ2647N	Polyslider Washer(Cut)	2.6x4.7x0.4t
513	8670A1G404	Screw, Sems A	M2.6x4
514	8670A1HA04	Screw, Sems A	M3x10
515	8670A1H504	Screw, Sems A	M3x5
516	8670A1H804	Screw, Sems A	M3x8
517	8670B1HA04	Screw, Sems B	M3x10
518	8670B1H604	Screw, Sems B	M3x6
519	8670B1H804	Screw, Sems B	M3x8
520	867501H504	Screw, W+Tap-Tite-S +Pan	M3x5
521	8675DZD302	Set Screw, 6Cup Point	M2x3
522	8675CZH502	Set Screw, 6Cone Point	M3x5
523	867023D404	Screw, +Flat Head	M2x4
524	867WP3154N	Polyslider Washer	3.1x5.4x0.4t
525	867073HB34	Screw, Tap-Tite-S +Flat	M3x23
526	867072HA04	Screw, Tap-Tite-S +Bind	M3x10
527	867072H604	Screw, Tap-Tite-S +Bind	M3x6
528	867NETW201	E-Ring	2.0φ
529	8640A1H404	Screw, Sems A	M3x4
530	864072H604	Screw, Tap-Tite-S + Bind	M3x4
550	8640A1G404	Screw, Sems A	M2.6x4
551	864021G604	Screw, +Pan Head	M2.6x6
552	864022D804	Screw, +Bind Head	M2x8
553	864022HA24	Screw, +Bind Head	M3x12
554	864022H604	Screw, +Bind Head	M3x6
555	864106H804	Screw, Tap-Tite-P +Brazer	M3x8
556	867072H608	Screw, Tap-Tite-S +Bind	M3x6 Red
557	864NETW151	E-Ring	1.5φ
558	864NETW201	E-Ring	2.0φ
559	864NETW301	E-Ring	3.0φ
560	864WA43A0U	Washer	4.3x10x0.8t
561	864WP2240Q	Polyslider Washer	2.2x4x0.5t
562	864WP4170Q	Polyslider Washer	4.1x7x0.5t
563	864WQ1640J	Polyslider Washer(Cut)	1.6x4.0.25t
-	899M01W034	Band, Cord Clamp	
-	899M01N035	Band, Cord Clamp	
CD2001	068312117A	Cord EIS Connector	8312117A
CD2501	0683130085A	Cord EIS Connector	83130085A
CD2502	068316042A	Cord EIS Connector	8316042A
CD2503	06831A019A	Cord EIS Connector	831A019A
CD5001	068315042A	Cord EIS Connector	8315042A
CD5002	068312108A	Cord EIS Connector	8312108A

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION	Q'TY
		-RESISTORS-	
R301	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R302	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R303	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R304	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R305	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R306	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R310	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R311	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R312	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R314	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R315	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R317	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R319	R011T6185J	RC ERD-16TJ185T 1.8M OHM 1/6W	1
R320	R011T6684J	RC ERD-16TJ684T 680K OHM 1/6W	1
R322	R011T6823J	RC ERD-16TJ823T 82K OHM 1/6W	1
R324	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R325	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R326	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R328	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R329	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R330	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R331	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R332	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R343	R011T6822J	RC ERD-16TJ822T 8.2K OHM 1/6W	1
R345	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R346	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R347	R011T6333J	RC ERD-16TJ333T 33K OHM 1/6W	1
R348	R011T6394J	RC ERD-16TJ394T 390K OHM 1/6W	1
R349	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R350	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R351	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R352	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R355	R012T2122J	RC ERD-S1TJ122T 1.2K OHM 1/2W	1
R358	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R359	R011T6333J	RC ERD-16TJ333T 33K OHM 1/6W	1
R360	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R361	R011T6393J	RC ERD-16TJ393T 39K OHM 1/6W	1
R363	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R364	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R365	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R366	R011T6822J	RC ERD-16TJ822T 8.2K OHM 1/6W	1
R367	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R368	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
⚠ R369	R31281471J	R.METAL OXIDE ERG-1SJ471P 470 OHM 1W	1
R372	R011T6822J	RC ERD-16TJ822T 8.2K OHM 1/6W	1
R373	R011T6185J	RC ERD-16TJ185T 1.8M OHM 1/6W	1
R375	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R376	R011T6824J	RC ERD-16TJ824T 820K OHM 1/6W	1
R378	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R502	R011T4222J	RC ERD-25TJ222T 2.2K OHM 1/4W	1
R503	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R504	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R505	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R601	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R602	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R605	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R606	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R611	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R612	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R613	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R615	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R616	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R617	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R618	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R619	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R622	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R623	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R624	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R625	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R626	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R627	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R628	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R629	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R630	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R631	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R632	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R634	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R635	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R636	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R637	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R638	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R640	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R641	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R642	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R643	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R644	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R645	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R646	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R648	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R649	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R650	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R651	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R652	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R653	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R654	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R656	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R657	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R658	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R660	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R661	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1
R662	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1
R663	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R664	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R665	R011T6152J	RC ERD-16TJ152T 1.5K OHM 1/6W	1
R666	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1

AMENDMENT OF PARTS LIST

REF. NO.	DESCRIPTION		DESCRIPTION(new)	PARTS NO.
		-RESISTORS-		
R328	47K (1/6W)		4.7K (1/6W)	R011T6472J
R371		(ADD.)	8.2 (1/2W)	R615828R2J
R607		(ADD.)	1K (1/6W)	R011T6102J
R633		(ADD.)	82K (1/6W)	R011T6823J
R1105	680 (1/6W)	(DEL.)		
R1204		(ADD.)	820 (1/6W)	R011T6821J
R2023		(ADD.)	47K (1/6W)	R011T6473J
R3010		(ADD.)	1M (1/6W)	R011T6105J
R3040	1M (1/6W)	(DEL.)		
R5597	1.2K (1/6W)		3.3K (1/6W)	R011T6332J
R5618		(ADD.)	68 (1/6W)	R011T6680J
R6004	820 (1/6W)	(DEL.)		
R6505	8.2K (1/6W)		82K (1/6W)	R011T6823J
R6554	120 (1/6W)		330 (1/6W)	R011T6331J
		-CAPACITORS-		
C311	10000 PF 16V	(DEL.)		
C385	0.22 µF 50V	(DEL.)		
C3710	0.1 µF 50V		22000 PF 25V ZF	CH1TF03H4Z
C3712	0.022 µF 50V		0.01 µF 50V	P111T0103K
C5594		(ADD.)	33 µF 16V	E011T2330M
C5710	22 µF 16V	(DEL.)		
C6512	22 µF 16V		10 µF 16V	E011T2100M
C6513	22 µF 16V		10 µF 16V	E011T2100M
C6525		(ADD.)	820 PF 50V	CH4TB04W2K
C6548		(ADD.)	560 PF 50V	CH4TB04S2K
		-SEMICONDUCTORS-		
D315	GMA-01-BT	(DEL.)		
D5515		(ADD.)	GMA-01-BT	D13TGMA010
Q305	DTC124E S-T		2SA608NP-T	TA3T006080
Q614		(ADD.)	2SC536SP	TC300536S0
Q620	2SC536SP	(DEL.)		
Q621		(ADD.)	2SC536SP	TC300536S0
Q1021	2SC3332T-T	(DEL.)		
		-P.C.BOARDS-		
PCB061	VE0090D		VE0090B	13VE0090B1
PCB062	VE0093D		VE0093B	13VE0093B1
PCB101	VC0045B		VC0045A	13VC0045A1
PCB121	VC0040C		VC0040B	13VC0040B1
PCB122	VE0092C		VE0092B	13VE0092B1
PCB401	VV0029B		VV0029A	13VV0029A1
PCB501	VE0091C		VE0091B	13VE0091B1
PCB551	VV0026D		VV0026C	13VV0026C1
		-MISCELLANEOUS-		
TP2001		(ADD.)	IPS-2034	126V000002
TP2002		(ADD.)	IPS-2034	126V000002
TP2003		(ADD.)	IPS-2034	126V000002
TP2004		(ADD.)	IPS-2034	126V000002
TP2005		(ADD.)	IPS-2034	126V000002
TP2006		(ADD.)	IPS-2034	126V000002
TP2007		(ADD.)	IPS-2034	126V000002

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ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION	Q'TY
		-RESISTORS-	
R2008	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2009	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2010	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2011	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R2012	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2013	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2014	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2015	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R2016	R011T6151J	RC ERD-16TJ151T 150 OHM 1/6W	1
R2017	R011T6333J	RC ERD-16TJ333T 33K OHM 1/6W	1
R2018	R011T6333J	RC ERD-16TJ333T 33K OHM 1/6W	1
R2020	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R2021	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R2022	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R2026	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R2027	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2028	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2029	R011T6393J	RC ERD-16TJ393T 39K OHM 1/6W	1
R2030	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2031	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2032	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2033	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2034	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2035	R011T6474J	RC ERD-16TJ474T 470K OHM 1/6W	1
R2038	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R2039	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R2040	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2041	R011T6564J	RC ERD-16TJ564T 560K OHM 1/6W	1
R2042	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2043	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R2044	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R2045	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R2046	R011T6105J	RC ERD-16TJ105T 1M OHM 1/6W	1
R2047	R011T6683J	RC ERD-16TJ683T 68K OHM 1/6W	1
R2048	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2049	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R2050	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2051	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2052	R011T6105J	RC ERD-16TJ105T 1M OHM 1/6W	1
R2053	R011T6474J	RC ERD-16TJ474T 470K OHM 1/6W	1
R2054	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R2060	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R2061	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R2062	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R2063	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R2064	R011T6105J	RC ERD-16TJ105T 1M OHM 1/6W	1
R2065	R011T6563J	RC ERD-16TJ563T 56K OHM 1/6W	1
R2066	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2067	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R2068	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2069	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R2070	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2071	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R2073	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R2074	R011T6563J	RC ERD-16TJ563T 56K OHM 1/6W	1
R2075	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R2076	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2077	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R2078	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R2079	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R2080	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2081	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2082	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2083	R011T6152J	RC ERD-16TJ152T 1.5K OHM 1/6W	1
R2084	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2085	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R2086	R012T2010J	RC ERD-S1TJ010T 1 OHM 1/2W	1
R2087	R011T6393J	RC ERD-16TJ393T 39K OHM 1/6W	1
R2088	R011T6123J	RC ERD-16TJ123T 12K OHM 1/6W	1
R2089	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R2090	R011T6221J	RC ERD-16TJ221T 220 OHM 1/6W	1
R2091	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R2092	R011T6564J	RC ERD-16TJ564T 560K OHM 1/6W	1
R2093	R011T6474J	RC ERD-16TJ474T 470K OHM 1/6W	1
R2094	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R2095	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2096	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R2097	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R2098	R011T6474J	RC ERD-16TJ474T 470K OHM 1/6W	1
R2099	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2100	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R2101	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2102	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2103	R011T6822J	RC ERD-16TJ822T 8.2K OHM 1/6W	1
R2105	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R2109	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2110	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R2111	R011T6563J	RC ERD-16TJ563T 56K OHM 1/6W	1
R2112	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R2501	R012T2391J	RC ERD-S1TJ391T 390 OHM 1/2W	1
R2502	R011T68R2J	RC ERD-16TJ8R2T 8.2 OHM 1/6W	1
R2503	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2504	R011T6272J	RC ERD-16TJ272T 2.7K OHM 1/6W	1
R2505	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R2506	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R2507	R011T6271J	RC ERD-16TJ271T 270 OHM 1/6W	1
R2508	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R2509	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R2510	R011T6392J	RC ERD-16TJ392T 3.9K OHM 1/6W	1
R3001	R011T6272J	RC ERD-16TJ272T 2.7K OHM 1/6W	1
R3002	R011T6272J	RC ERD-16TJ272T 2.7K OHM 1/6W	1
R3004	R011T6271J	RC ERD-16TJ271T 270 OHM 1/6W	1
R3005	R011T6151J	RC ERD-16TJ151T 150 OHM 1/6W	1
R3006	R011T6823J	RC ERD-16TJ823T 82K OHM 1/6W	1
R3008	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION	Q'TY
		-RESISTORS-	
R667	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R668	R011T6823J	RC ERD-16TJ823T 82K OHM 1/6W	1
R1001	R011T6105J	RC ERD-16TJ105T 1M OHM 1/6W	1
R1002	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R1003	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1005	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1006	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1007	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1008	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1010	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1011	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1012	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1013	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1014	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1015	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R1016	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R1017	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1018	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1019	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1020	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1021	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R1022	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R1023	R011T6683J	RC ERD-16TJ683T 68K OHM 1/6W	1
R1024	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R1025	R011T6333J	RC ERD-16TJ333T 33K OHM 1/6W	1
R1026	R011T6563J	RC ERD-16TJ563T 56K OHM 1/6W	1
R1027	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R1028	R011T6331J	RC ERD-16TJ331T 330 OHM 1/6W	1
R1029	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1030	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R1031	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R1032	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1033	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R1034	R011T6474J	RC ERD-16TJ474T 470K OHM 1/6W	1
R1035	R011T6474J	RC ERD-16TJ474T 470K OHM 1/6W	1
R1036	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R1037	R012T2821J	RC ERD-S1TJ821T 820 OHM 1/2W	1
R1038	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1039	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1040	R011T6683J	RC ERD-16TJ683T 68K OHM 1/6W	1
R1041	R011T6683J	RC ERD-16TJ683T 68K OHM 1/6W	1
R1042	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1043	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1044	R012T2681J	RC ERD-S1TJ681T 680 OHM 1/2W	1
R1045	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1046	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1047	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R1048	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1049	R011T6120J	RC ERD-16TJ120T 12 OHM 1/6W	1
R1050	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1051	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1052	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1053	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R1054	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R1055	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R1056	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R1057	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R1058	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R1059	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1060	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1061	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1062	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1063	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1064	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1065	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1066	R012T2270J	RC ERD-S1TJ270T 27 OHM 1/2W	1
R1072	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R1073	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R1074	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R1075	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1076	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1077	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R1078	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R1079	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R1080	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R1081	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R1082	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R1084	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R1085	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1086	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1089	R011T6273J	RC ERD-16TJ273T 27K OHM 1/6W	1
R1090	R011T6391J	RC ERD-16TJ391T 390 OHM 1/6W	1
R1091	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R1092	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R1093	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R1094	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R1095	R011T6105J	RC ERD-16TJ105T 1M OHM 1/6W	1
R1096	R011T6563J	RC ERD-16TJ563T 56K OHM 1/6W	1
R1097	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R1098	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R1099	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1100	R012T2471J	RC ERD-S1TJ471T 470 OHM 1/2W	1
R1101	R3118A270J	R.METAL OXIDE ERG-2ANJ270H 27 OHM 2 W	1
R1102	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1103	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R1104	R012T2181J	RC ERD-S1TJ181T 180 OHM 1/2W	1
R1105	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R1201	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1
R2001	R011T6680J	RC ERD-16TJ680T 68 OHM 1/6W	1
R2002	R011T6152J	RC ERD-16TJ152T 1.5K OHM 1/6W	1
R2003	R011T6224J	RC ERD-16TJ224T 220K OHM 1/6W	1
R2004	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R2005	R011T6331J	RC ERD-16TJ331T 330 OHM 1/6W	1
R2006	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R2007	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-RESISTORS-		
R4098	R011T6471J	RC ERD-16TJ471T	470 OHM 1/6W	1
R4099	R011T6471J	RC ERD-16TJ471T	470 OHM 1/6W	1
R4103	R011T6391J	RC ERD-16TJ391T	390 OHM 1/6W	1
R4104	R011T6151J	RC ERD-16TJ151T	150 OHM 1/6W	1
R4107	R011T6391J	RC ERD-16TJ391T	390 OHM 1/6W	1
R4108	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R4109	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4112	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4113	R011T6121J	RC ERD-16TJ121T	120 OHM 1/6W	1
R4115	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4117	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R4118	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R4120	R011T6331J	RC ERD-16TJ331T	330 OHM 1/6W	1
R4121	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4122	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4123	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R4124	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R4125	R011T6564J	RC ERD-16TJ564T	560K OHM 1/6W	1
R4126	R011T6101J	RC ERD-16TJ101T	100 OHM 1/6W	1
R4127	R011T6152J	RC ERD-16TJ152T	1.5K OHM 1/6W	1
R4128	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4129	R011T65R1J	RC ERD-16TJ5R1T	5.1 OHM 1/6W	1
R4130	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4140	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R4142	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R4143	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R4145	R011T6394J	RC ERD-16TJ394T	390K OHM 1/6W	1
R4147	R011T6184J	RC ERD-16TJ184T	180K OHM 1/6W	1
R4148	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4149	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R4151	R011T6155J	RC ERD-16TJ155	1.5M OHM 1/6W	1
R4155	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4161	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R4162	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R4181	R011T6561J	RC ERD-16TJ561T	560 OHM 1/6W	1
R4183	R011T6471J	RC ERD-16TJ471T	470 OHM 1/6W	1
R4190	R011T6101J	RC ERD-16TJ101T	100 OHM 1/6W	1
R4191	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4194	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R4196	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4197	R011T6183J	RC ERD-16TJ183T	18K OHM 1/6W	1
R4199	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4200	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4202	R011T6273J	RC ERD-16TJ273T	27K OHM 1/6W	1
R4204	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R4205	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R4206	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R4209	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R4210	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R4212	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R4213	R011T6394J	RC ERD-16TJ394T	390K OHM 1/6W	1
R4216	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R4219	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4220	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
R4223	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4225	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4226	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
R4230	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R4232	R011T6470J	RC ERD-16TJ470T	47 OHM 1/6W	1
R4235	R011T6101J	RC ERD-16TJ101T	100 OHM 1/6W	1
R4236	R011T6750J	RC ERD-16TJ750T	75 OHM 1/6W	1
R4237	R01102271J	RC ERD-50TJ271	270 OHM 1/2W	1
R4238	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4240	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R4242	R011T6331J	RC ERD-16TJ331T	330 OHM 1/6W	1
R4264	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5001	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5003	R011T6470J	RC ERD-16TJ470T	47 OHM 1/6W	1
R5004	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5005	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5006	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5007	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
⚠ R5009	R615844R7J	R,FUSE ERQ-14AJ4R7P	4.7 OHM 1/4W	1
R5010	R011T6470J	RC ERD-16TJ470T	47 OHM 1/6W	1
R5012	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5013	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5014	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5015	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5016	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5017	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5018	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5019	R011T6105J	RC ERD-16TJ105T	1M OHM 1/6W	1
R5020	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5021	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5022	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5023	R011T6683J	RC ERD-16TJ683T	68K OHM 1/6W	1
R5024	R011T6154J	RC ERD-16TJ154T	150K OHM 1/6W	1
R5026	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5027	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5028	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R5029	R011T6334J	RC ERD-16TJ334T	330K OHM 1/6W	1
R5033	R011T6221J	RC ERD-16TJ221T	220 OHM 1/6W	1
R5034	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R5035	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5036	R011T6101J	RC ERD-16TJ101T	100 OHM 1/6W	1
R5038	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5039	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5040	R011T6273J	RC ERD-16TJ273T	27K OHM 1/6W	1
R5044	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5046	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5047	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5048	R011T6121J	RC ERD-16TJ121T	120 OHM 1/6W	1
R5049	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5050	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION	Q'TY
		-RESISTORS-	
R3009	R011T6562J	RC ERD-16TJ562T 5.6K OHM 1/6W	1
R3011	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1
R3012	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R3013	R011T6271J	RC ERD-16TJ271T 270 OHM 1/6W	1
R3014	R011T6122J	RC ERD-16TJ122T 1.2K OHM 1/6W	1
R3015	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R3016	R01102331J	RC ERD-50TJ331 330 OHM 1/2W	1
R3017	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R3018	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R3019	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R3020	R011T6122J	RC ERD-16TJ122T 1.2K OHM 1/6W	1
R3021	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R3022	R011T6101J	RC ERD-16TJ101T 100 OHM 1/6W	1
R3023	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R3029	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R3030	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R3031	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R3032	R011T6181J	RC ERD-16TJ181T 180 OHM 1/6W	1
R3033	R011T6123J	RC ERD-16TJ123T 12K OHM 1/6W	1
R3040	R011T6105J	RC ERD-16TJ105T 1M OHM 1/6W	1
R3047	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R3048	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R3050	R011T6122J	RC ERD-16TJ122T 1.2K OHM 1/6W	1
R3052	R011T6391J	RC ERD-16TJ391T 390 OHM 1/6W	1
R3054	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R3055	R011T6122J	RC ERD-16TJ122T 1.2K OHM 1/6W	1
R3060	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R3061	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R3070	R011T6821J	RC ERD-16TJ821T 820 OHM 1/6W	1
R3071	R011T6274J	RC ERD-16TJ274T 270K OHM 1/6W	1
R3072	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R3073	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R3075	R011T6472J	RC ERD-16TJ472T 4.7K OHM 1/6W	1
R3078	R011T6824J	RC ERD-16TJ824T 820K OHM 1/6W	1
R3082	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R3083	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1
R3085	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R3086	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R3087	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R3089	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R3090	R011T6181J	RC ERD-16TJ181T 180 OHM 1/6W	1
R3091	R011T6123J	RC ERD-16TJ123T 12K OHM 1/6W	1
R3092	R011T6562J	RC ERD-16TJ562T 5.6K OHM 1/6W	1
R3093	R011T6562J	RC ERD-16TJ562T 5.6K OHM 1/6W	1
R3095	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R3098	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R3099	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R3128	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R3701	R011T6182J	RC ERD-16TJ182T 1.8K OHM 1/6W	1
R3702	R011T6104J	RC ERD-16TJ104T 100K OHM 1/6W	1
R3704	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R3705	R011T6562J	RC ERD-16TJ562T 5.6K OHM 1/6W	1
R3706	R011T6393J	RC ERD-16TJ393T 39K OHM 1/6W	1
R3707	R011T6333J	RC ERD-16TJ333T 33K OHM 1/6W	1
R3708	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R3709	R011T6183J	RC ERD-16TJ183T 18K OHM 1/6W	1
R3710	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R3711	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R3712	R011T6393J	RC ERD-16TJ393T 39K OHM 1/6W	1
R3720	R011T6152J	RC ERD-16TJ152T 1.5K OHM 1/6W	1
R4010	R011T6563J	RC ERD-16TJ563T 56K OHM 1/6W	1
R4011	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R4014	R011T6223J	RC ERD-16TJ223T 22K OHM 1/6W	1
R4015	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R4016	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R4019	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R4020	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R4021	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R4025	R011T6683J	RC ERD-16TJ683T 68K OHM 1/6W	1
R4026	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R4027	R011T6391J	RC ERD-16TJ391T 390 OHM 1/6W	1
R4028	R011T6102J	RC ERD-16TJ102T 1K OHM 1/6W	1
R4030	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R4034	R011T6101J	RC ERD-16TJ101T 100 OHM 1/6W	1
R4035	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R4036	R011T6390J	RC ERD-16TJ390T 39 OHM 1/6W	1
R4037	R011T6391J	RC ERD-16TJ391T 390 OHM 1/6W	1
R4038	R011T6560J	RC ERD-16TJ560T 56 OHM 1/6W	1
R4049	R011T6150J	RC ERD-16TJ150T 15 OHM 1/6W	1
R4050	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R4053	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R4054	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R4057	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R4059	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R4060	R011T6561J	RC ERD-16TJ561T 560 OHM 1/6W	1
R4062	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R4063	R011T6682J	RC ERD-16TJ682T 6.8K OHM 1/6W	1
R4065	R011T6331J	RC ERD-16TJ331T 330 OHM 1/6W	1
R4066	R011T6681J	RC ERD-16TJ681T 680 OHM 1/6W	1
R4069	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R4071	R011T6221J	RC ERD-16TJ221T 220 OHM 1/6W	1
R4072	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R4073	R011T6154J	RC ERD-16TJ154T 150K OHM 1/6W	1
R4076	R011T6332J	RC ERD-16TJ332T 3.3K OHM 1/6W	1
R4078	R011T6183J	RC ERD-16TJ183T 18K OHM 1/6W	1
R4080	R011T6103J	RC ERD-16TJ103T 10K OHM 1/6W	1
R4081	R011T6222J	RC ERD-16TJ222T 2.2K OHM 1/6W	1
R4083	R011T6562J	RC ERD-16TJ562T 5.6K OHM 1/6W	1
R4084	R011T6393J	RC ERD-16TJ393T 39K OHM 1/6W	1
R4086	R011T6473J	RC ERD-16TJ473T 47K OHM 1/6W	1
R4088	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R4093	R011T6153J	RC ERD-16TJ153T 15K OHM 1/6W	1
R4094	R011T6471J	RC ERD-16TJ471T 470 OHM 1/6W	1
R4095	R011T6152J	RC ERD-16TJ152T 1.5K OHM 1/6W	1
R4096	R011T6392J	RC ERD-16TJ392T 3.9K OHM 1/6W	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-RESISTORS-		
R5051	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R5052	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R5053	R011T6220J	RC ERD-16TJ220T	22 OHM 1/6W	1
R5054	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5055	R011T6124J	RC ERD-16TJ124T	120K OHM 1/6W	1
R5056	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
R5060	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5101	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5102	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5103	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5104	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5105	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5106	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5107	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5108	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5109	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5110	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5111	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5112	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5113	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5114	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5115	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5116	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5117	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5119	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5120	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5121	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5122	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R5123	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5124	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5125	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5126	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5127	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R5128	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5129	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5130	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5131	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5132	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5133	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5134	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5135	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5136	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5137	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5138	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5139	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5140	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5141	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5142	R011T6820J	RC ERD-16TJ820T	82 OHM 1/6W	1
R5143	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1
R5144	R011T6820J	RC ERD-16TJ820T	82 OHM 1/6W	1
R5145	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1
R5150	R011T6182J	RC ERD-16TJ182T	1.8K OHM 1/6W	1
R5151	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5152	R011T6105J	RC ERD-16TJ105T	1M OHM 1/6W	1
R5153	R011T6392J	RC ERD-16TJ392T	3.9K OHM 1/6W	1
R5155	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5156	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5157	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5158	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5159	R011T6154J	RC ERD-16TJ154T	150K OHM 1/6W	1
R5160	R011T6154J	RC ERD-16TJ154T	150K OHM 1/6W	1
R5161	R011T6154J	RC ERD-16TJ154T	150K OHM 1/6W	1
R5162	R011T6154J	RC ERD-16TJ154T	150K OHM 1/6W	1
R5163	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5164	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5165	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5166	R011T6272J	RC ERD-16TJ272T	2.7K OHM 1/6W	1
R5167	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5168	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5170	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5171	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5172	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R5173	R011T6124J	RC ERD-16TJ124T	120K OHM 1/6W	1
R5174	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5175	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5501	R011T6221J	RC ERD-16TJ221T	220 OHM 1/6W	1
R5502	R011T6391J	RC ERD-16TJ391T	390 OHM 1/6W	1
R5503	R011T6221J	RC ERD-16TJ221T	220 OHM 1/6W	1
R5504	R011T6101J	RC ERD-16TJ101T	100 OHM 1/6W	1
R5505	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5507	R011T6100J	RC ERD-16TJ100T	10 OHM 1/6W	1
R5508	R011T6272J	RC ERD-16TJ272T	2.7K OHM 1/6W	1
R5509	R011T6100J	RC ERD-16TJ100T	10 OHM 1/6W	1
R5510	R011T6272J	RC ERD-16TJ272T	2.7K OHM 1/6W	1
R5519	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5520	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5521	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5522	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5523	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5531	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5532	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5533	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5534	R011T6151J	RC ERD-16TJ151T	150 OHM 1/6W	1
R5535	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5536	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5537	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5538	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5539	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5540	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5541	R011T6272J	RC ERD-16TJ272T	2.7K OHM 1/6W	1
R5542	R011T6272J	RC ERD-16TJ272T	2.7K OHM 1/6W	1
R5551	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5552	R011T6621J	RC ERD-16TJ621T	620 OHM 1/6 W	1
R5555	R011T6114J	RC ERD-16TJ114T	110K OHM 1/6W	1
R5556	R011T6753J	RC ERD-16TJ753T	75K OHM 1/6 W	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-RESISTORS-		
R5557	R011T6114J	RC ERD-16TJ114T	110K OHM 1/6W	1
R5558	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5559	R011T6391J	RC ERD-16TJ391T	390 OHM 1/6W	1
R5560	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5561	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5562	R011T6111J	RC ERD-16TJ111T	110 OHM 1/6W	1
R5563	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5564	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5565	R011T6303J	RC ERD-16TJ303T	30K OHM 1/6 W	1
R5566	R011T6163J	RC ERD-16TJ163T	16K OHM 1/6W	1
R5567	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5569	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5571	R012T2221J	RC ERD-S1TJ221T	220 OHM 1/2W	1
R5572	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5573	R011T6114J	RC ERD-16TJ114T	110K OHM 1/6W	1
R5574	R011T6753J	RC ERD-16TJ753T	75K OHM 1/6 W	1
R5575	R011T6114J	RC ERD-16TJ114T	110K OHM 1/6W	1
R5576	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5577	R011T6391J	RC ERD-16TJ391T	390 OHM 1/6W	1
R5578	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5580	R011T6242J	RC ERD-16TJ242T	2.4K OHM 1/6 W	1
R5581	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5582	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5583	R011T6203J	RC ERD-16TJ203T	20K OHM 1/6W	1
R5584	R011T6513J	RC ERD-16TJ513T	51K OHM 1/6 W	1
R5585	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5586	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5587	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5588	R011T6111J	RC ERD-16TJ111T	110 OHM 1/6W	1
R5589	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R5590	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5591	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5592	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5593	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
R5594	R011T6561J	RC ERD-16TJ561T	560 OHM 1/6W	1
R5595	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5596	R011T6334J	RC ERD-16TJ334T	330K OHM 1/6W	1
R5597	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R5598	R011T6820J	RC ERD-16TJ820T	82 OHM 1/6W	1
R5601	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5602	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5607	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5608	R011T6221J	RC ERD-16TJ221T	220 OHM 1/6W	1
R5609	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5610	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5611	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5612	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5613	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R5614	R02124475J	RC RD25U475J	4.7M OHM 1/4 W	1
R5615	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5616	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5617	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5621	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5622	R011T6221J	RC ERD-16TJ221T	220 OHM 1/6W	1
R5623	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5624	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5625	R011T6333J	RC ERD-16TJ333T	33K OHM 1/6W	1
R5626	R02124475J	RC RD25U475J	4.7M OHM 1/4 W	1
R5627	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5628	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5630	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5631	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R5636	R011T6681J	RC ERD-16TJ681T	680 OHM 1/6W	1
R5641	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5642	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5643	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5644	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5645	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5646	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5647	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R5648	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5649	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R5650	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R5651	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R5652	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1
R5653	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5654	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5655	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1
R5656	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R5657	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5658	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R5659	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5660	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R5661	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5664	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R5665	R011T4562J	RC ERD-25TJ562T	5.6K OHM 1/4W	1
R5666	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5667	R011T4562J	RC ERD-25TJ562T	5.6K OHM 1/4W	1
R5668	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5669	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R5670	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5671	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R5672	R011T6183J	RC ERD-16TJ183T	18K OHM 1/6W	1
R5673	R011T6183J	RC ERD-16TJ183T	18K OHM 1/6W	1
R5701	R011T6750J	RC ERD-16TJ750T	75 OHM 1/6W	1
R5702	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
R5703	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R5704	R011T6562J	RC ERD-16TJ562T	5.6K OHM 1/6W	1
R6001	R011T6332J	RC ERD-16TJ332T	3.3K OHM 1/6W	1
R6002	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1
R6003	R011T6750J	RC ERD-16TJ750T	75 OHM 1/6W	1
R6004	R011T6821J	RC ERD-16TJ821T	820 OHM 1/6W	1
R6005	R011T6105J	RC ERD-16TJ105T	1M OHM 1/6W	1
R6006	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R6007	R011T6183J	RC ERD-16TJ183T	18K OHM 1/6W	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION			Q'TY
		-CAPACITORS-			
C384	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C385	P613O0224J	CMPL ECQV05224JZ	0.22 UF 50V		1
C501	C01VF04Q4Z	CC ECKR1H473ZF	47000 PF 50V		1
C502	E01HF3222M	CE ECEA1EG222S	2200 UF 25V		1
C503	E011F3332M	CE ECEA1EU332E	3300 UF 25 V		1
C504	E01HT52R2M	CE ECEA1HG2R2SB	2.2 UF 50V		1
C505	C01VF04Q4Z	CC ECKR1H473ZF	47000 PF 50V		1
C506	E011F3332M	CE ECEA1EU332E	3300 UF 25 V		1
C507	E011F3101M	CE ECEA1EU101E	100 UF 25 V		1
C508	E011F52R2M	CE ECEA1HU2R2E	2.2 UF 50 V		1
C509	E011T5470M	CE ECEA1HU470B	47 UF 50 V		1
C510	E011F2222M	CE ECEA1CU222E	2200 UF 16 V		1
C511	E011F5470M	CE ECEA1HU470E	47 UF 50 V		1
C512	E011T2101M	CE ECEA1CU101B	100 UF 16 V		1
C513	E011T2101M	CE ECEA1CU101B	100 UF 16 V		1
C514	E011T3101M	CE ECEA1EU101B	100 UF 25 V		1
C515	E011T3101M	CE ECEA1EU101B	100 UF 25 V		1
C516	E01LF2103M	CE ECES1CU103G	10000 UF 16V		1
C517	CH4TB04S2K	CC UP050 B561K	560 PF 50 V		1
C602	E011F5220M	CE ECEA1HS220E	22 UF 50 V		1
C603	E013F2100M	CE ECEA1CK100E	10 UF 16 V		1
C604	P613F0103J	CMPL ECQV05103JZW	0.01 UF 50V		1
C605	E013F2100M	CE ECEA1CK100E	10 UF 16 V		1
C606	E013F2100M	CE ECEA1CK100E	10 UF 16 V		1
C608	E013F2100M	CE ECEA1CK100E	10 UF 16 V		1
C609	E013F54R7M	CE ECEA1HK4R7E	4.7 UF 50 V		1
C610	P111T0223K	CP ECQM1H223KZ3	0.022 UF 50V		1
C1001	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C1002	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1003	CH4TSL4L1J	CC UP050SL330J	33 PF 50V		1
C1004	CH4TSL4L1J	CC UP050SL330J	33 PF 50V		1
C1005	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1006	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C1007	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1008	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C1009	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1010	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1011	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1012	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1013	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C1015	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C1016	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C1017	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C1018	CH4TB04W2K	CC UP050 B821K	820 PF 50 V		1
C1019	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C1020	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C1207	C01FSL4N1J	CC ECCW1H390J	39 PF 50V		1
C2001	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C2002	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C2003	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2004	P111T0222J	CP ECQM1H222JZ3	0.0022UF 50V		1
C2005	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C2006	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2007	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V		1
C2008	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2009	CH4TSL4L1J	CC UP050SL330J	33 PF 50V		1
C2010	P111T0272J	CP ECQM1H272JZ3	0.0027UF 50V		1
C2011	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C2012	E01NT2100M	CE ECEA1CKN100B	10 UF 16V		1
C2013	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C2014	P111T0822J	CP ECQM1H822JZ3	0.0082UF 50V		1
C2015	P111T0822J	CP ECQM1H822JZ3	0.0082UF 50V		1
C2017	P111T0122J	CP ECQM1H122JZ3	0.0012UF 50V		1
C2018	P111T0122J	CP ECQM1H122JZ3	0.0012UF 50V		1
C2019	P111T0122J	CP ECQM1H122JZ3	0.0012UF 50V		1
C2020	P613T0184J	CMPL ECQV1H184JZ3	0.18 UF 50 V		1
C2022	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2024	P111T0123J	CP ECQM1H123JZ3	0.012 UF 50V		1
C2025	E01NT2100M	CE ECEA1CKN100B	10 UF 16V		1
C2026	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C2027	P111T0822J	CP ECQM1H822JZ3	0.0082UF 50V		1
C2028	P111T0222J	CP ECQM1H222JZ3	0.0022UF 50V		1
C2029	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2030	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C2031	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C2032	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V		1
C2033	CH4TSL4Q1J	CC UP050SL470J	47 PF 50V		1
C2034	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V		1
C2035	P613T0473J	CMPL ECQV1H473JZ3	0.047 UF 50 V		1
C2036	P613T0473J	CMPL ECQV1H473JZ3	0.047 UF 50 V		1
C2037	E013T34R7M	CE ECEA1EK4R7B	4.7 UF 25 V		1
C2038	E013T34R7M	CE ECEA1EK4R7B	4.7 UF 25 V		1
C2039	E01NT5010M	CE ECEA1HKN010B	1 UF 50V		1
C2040	P613T0124J	CMPL ECQV1H124JB3	0.12 UF 50V		1
C2041	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V		1
C2042	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2043	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V		1
C2044	P613T0334J	CMPL ECQV1H334JZ3	0.33 UF 50V		1
C2045	P613T0154J	CMPL ECQV1H154JZ3	0.15 UF 50V		1
C2047	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2048	P613T0124J	CMPL ECQV1H124JB3	0.12 UF 50V		1
C2049	P111T0222J	CP ECQM1H222JZ3	0.0022UF 50V		1
C2050	CH4TB04W2K	CC UP050 B821K	820 PF 50 V		1
C2051	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C2052	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C2053	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C2054	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C2055	E013T5R47M	CE ECEA1HKR47B	0.47UF 50 V		1
C2056	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2057	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C2058	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C2059	P111T0153J	CP ECQM1H153JZ3	0.015 UF 50V		1
C2060	P613T0393J	CMPL ECQV1H393JZ3	0.039 UF 50 V		1
C2061	E01NT5010M	CE ECEA1HKN010B	1 UF 50V		1
C2062	E013T2101M	CE ECEA1CK101B	100 UF 16 V		1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-RESISTORS-		
R6010	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R6016	R011T6105J	RC ERD-16TJ105T	1M OHM 1/6W	1
R6019	R011T6225J	RC ERD-16TJ225T	2.2M OHM 1/6W	1
R6501	R011T6273J	RC ERD-16TJ273T	27K OHM 1/6W	1
R6502	R011T6273J	RC ERD-16TJ273T	27K OHM 1/6W	1
R6503	R011T6272J	RC ERD-16TJ272T	2.7K OHM 1/6W	1
R6504	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R6505	R011T6822J	RC ERD-16TJ822T	8.2K OHM 1/6W	1
R6506	R011T6124J	RC ERD-16TJ124T	120K OHM 1/6W	1
R6507	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
⚠ R6508	R615846R8J	R,FUSE ERQ-14AJ6R8P	6.8 OHM 1/4W	1
R6509	R011T6221J	RC ERD-16TJ221T	220 OHM 1/6W	1
R6510	R011T6471J	RC ERD-16TJ471T	470 OHM 1/6W	1
R6511	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R6512	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R6513	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R6514	R011T6224J	RC ERD-16TJ224T	220K OHM 1/6W	1
R6515	R011T6273J	RC ERD-16TJ273T	27K OHM 1/6W	1
R6516	R011T6393J	RC ERD-16TJ393T	39K OHM 1/6W	1
R6517	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R6519	R011T6152J	RC ERD-16TJ152T	1.5K OHM 1/6W	1
R6520	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R6521	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R6522	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R6523	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R6524	R421T6472F	RC RN1/6TS4.7KF	4.7K OHM 1/6W	1
R6525	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R6526	R011T6222J	RC ERD-16TJ222T	2.2K OHM 1/6W	1
R6527	R011T6182J	RC ERD-16TJ182T	1.8K OHM 1/6W	1
R6528	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R6529	R011T6473J	RC ERD-16TJ473T	47K OHM 1/6W	1
R6530	R011T6122J	RC ERD-16TJ122T	1.2K OHM 1/6W	1
R6531	R421T6472F	RC RN1/6TS4.7KF	4.7K OHM 1/6W	1
R6532	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R6533	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R6534	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R6535	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6536	R011T6822J	RC ERD-16TJ822T	8.2K OHM 1/6W	1
R6537	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6539	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6541	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6542	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6543	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6544	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R6545	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R6546	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6547	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R6548	R011T6103J	RC ERD-16TJ103T	10K OHM 1/6W	1
R6549	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R6550	R011T6155J	RC ERD-16TJ155	1.5M OHM 1/6W	1
R6551	R011T6393J	RC ERD-16TJ393T	39K OHM 1/6W	1
R6554	R011T6121J	RC ERD-16TJ121T	120 OHM 1/6W	1
R6555	R011T6184J	RC ERD-16TJ184T	180K OHM 1/6W	1
R6556	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R6557	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R6558	R011T6563J	RC ERD-16TJ563T	56K OHM 1/6W	1
R6559	R011T6153J	RC ERD-16TJ153T	15K OHM 1/6W	1
R6560	R011T6123J	RC ERD-16TJ123T	12K OHM 1/6W	1
R6561	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R6562	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R6563	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R6564	R011T6104J	RC ERD-16TJ104T	100K OHM 1/6W	1
R6565	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R6566	R011T6823J	RC ERD-16TJ823T	82K OHM 1/6W	1
R6567	R011T6472J	RC ERD-16TJ472T	4.7K OHM 1/6W	1
R6568	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R6569	R011T6223J	RC ERD-16TJ223T	22K OHM 1/6W	1
R6570	R011T6102J	RC ERD-16TJ102T	1K OHM 1/6W	1
R6571	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
R6572	R011T6682J	RC ERD-16TJ682T	6.8K OHM 1/6W	1
		-CAPACITORS-		
C301	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C302	CH4TY0214M	CC EP050 Y103M	10000 PF 16V	1
C303	CH4TB0412K	CC UP050 B101K	100 PF 50 V	1
C304	CH4TB0412K	CC UP050 B101K	100 PF 50 V	1
C306	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V	1
C307	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C309	P613T0103J	CMPL ECQV1H103JZ3	0.01 UF 50 V	1
C311	CH4TY0214M	CC EP050 Y103M	10000 PF 16V	1
C320	CH4TY0214M	CC EP050 Y103M	10000 PF 16V	1
C321	CH4TY0214M	CC EP050 Y103M	10000 PF 16V	1
C326	CH4TB04G2K	CC UP050 B181K	180 PF 50 V	1
C327	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V	1
C328	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V	1
C329	P613T0153J	CMPL ECQV1H153JZ3	0.015 UF 50V	1
C330	P613T0153J	CMPL ECQV1H153JZ3	0.015 UF 50V	1
C331	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V	1
C334	CH4TSL4H1J	CC UP050SL220J	22 PF 50V	1
C335	CH4TSL4G1J	CC UP050SL180J	18 PF 50V	1
C336	CH4TY0214M	CC EP050 Y103M	10000 PF 16V	1
C338	E011T3101M	CE ECEA1ES101B	100UF25V	1
C339	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V	1
C340	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V	1
C341	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V	1
C342	E011T5470M	CE ECEA1HS470B	47UF50V	1
C343	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V	1
C345	P111T0332K	CP ECQM1H332KZ3	0.0033UF 50V	1
C346	E011T5470M	CE ECEA1HS470B	47UF50V	1
C347	P1100103K	CP ECQM1H103KZ	0.01 UF 50V	1
C348	E011T5470M	CE ECEA1HS470B	47UF50V	1
C350	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C352	E011T2221M	CE ECEA1CS221B	220 UF 16 V	1
C355	P61300393J	CMPL ECQV05393JZ	0.039 UF 50V	1
C356	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V	1
C357	P613T0274J	CMPL ECQV1H274JZ3	0.27 UF 50 V	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION			Q'TY
		-CAPACITORS-			
C2063	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2064	P61300274J	CMPL ECQV05274JZ	0.27 UF 50V		1
C2065	E013T5R47M	CE ECEA1HKR47B	0.47UF 50 V		1
C2066	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C2070	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C2501	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C2502	E012T1221M	CE ECEA1ASS221B	220 UF 10 V		1
C2503	CH4TX02Q3M	CC EP050 X472M	4700 PF 16V		1
C2504	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C2507	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C3001	E011T50R1M	CE ECEA1HS0R1B	0.1 UF 50 V		1
C3002	P111T0122K	CP ECQM1H122KZ3	0.0012UF 50V		1
C3003	CH4TB04S2K	CC UP050 B561K	560 PF 50 V		1
C3005	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C3006	E011T1330M	CE ECEA1AS330B	33UF10V		1
C3008	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V		1
C3009	P111T0563J	CP ECQM1H563JV3	0.056 UF 50V		1
C3010	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C3012	P613T0473J	CMPL ECQV1H473JZ3	0.047 UF 50 V		1
C3013	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V		1
C3014	C01VCH4B1K	CC ECCR1H120KC	12 PF 50V		1
C3015	C01VCH4H1K	CC ECCR1H220KC	22 PF 50V		1
C3016	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3017	C01VCH4W1K	CC ECCR1H820KC	82 PF 50V		1
C3018	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3019	E011T1470M	CE ECEA1AS470B	47UF10V		1
C3020	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C3022	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3024	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3025	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3026	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3029	CH4TSL421J	CC UP050SL200J	20 PF 50V		1
C3030	E011T1470M	CE ECEA1AS470B	47UF10V		1
C3031	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C3032	C01VB04U2K	CC ECKR1H681KB	680 PF 50V		1
C3033	C01VCH4W1K	CC ECCR1H820KC	82 PF 50V		1
C3035	C01VF0414Z	CC ECKR1H103ZF	10000 PF 50 V		1
C3036	C01VF0414Z	CC ECKR1H103ZF	10000 PF 50 V		1
C3037	P613T0223J	CMPL ECQV1H223JZ3	0.022 UF 50 V		1
C3039	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3041	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3045	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V		1
C3046	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C3047	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V		1
C3049	E011T1221M	CE ECEA1AS221B	220 UF 10 V		1
C3050	P613T0473J	CMPL ECQV1H473JZ3	0.047 UF 50 V		1
C3051	C01VF04Q4Z	CC ECKR1H473ZF	47000 PF 50V		1
C3052	P111T0822K	CP ECQM1H822KZ3	0.0082UF 50V		1
C3053	E011T52R2M	CE ECEA1HS2R2B	2.2 UF 50 V		1
C3055	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C3056	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3058	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3059	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3060	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3061	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3062	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3701	E01101470M	CE ECEA1AS470	47 UF 10 V		1
C3702	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C3703	E01102330M	CE ECEA1CS330	33 UF 16 V		1
C3705	P111T0152J	CP ECQM1H152JZ3	0.0015UF 50V		1
C3706	P111T0122J	CP ECQM1H122JZ3	0.0012UF 50V		1
C3708	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C3709	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C3710	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C3712	P613T0223J	CMPL ECQV1H223JZ3	0.022 UF 50 V		1
C4001	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4008	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4009	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4010	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C4011	C020B0412K	CC HE40SJYB101K	100 PF	B	1
C4012	C020SL4A1J	CC HE40SJSL110J	11 PF	SL	1
C4013	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4014	CH4TSL4R1J	CC UP050SL510J	51 PF 50V		1
C4015	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4016	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4017	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4018	CH4TSL4Q1J	CC UP050SL470J	47 PF 50V		1
C4022	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4023	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4024	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4025	E011T5010M	CE ECEA1HU010B	1 UF 50 V		1
C4026	E01ET5010M	CE ECEA1HN010SB	1 UF 50 V		1
C4032	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C4035	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4036	E01ET5010M	CE ECEA1HN010SB	1 UF 50 V		1
C4038	E01ET5010M	CE ECEA1HN010SB	1 UF 50 V		1
C4039	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4042	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4043	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4045	C01VCH4E2J	CC ECCR1H151JC	150 PF 50V		1
C4046	C01VCH4E1K	CC ECCR1H150KC	15 PF 50V		1
C4047	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4049	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4050	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4053	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4054	C01TCH411D	CC ECCZ1H100DC	10 PF 50V	NP0	1
C4056	C01TCH411D	CC ECCZ1H100DC	10 PF 50V	NP0	1
C4058	C01VCH4L1J	CC ECCR1H330JC	33 PF 50V		1
C4059	C01VCH4E2K	CC ECCR1H151KC	150 PF 50V		1
C4060	C01VSL4Q2J	CC ECCR1H471J	470 PF 50V		1
C4062	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C4067	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4068	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4069	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C4071	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION			Q'TY
		-CAPACITORS-			
C4072	CH4TSL4S1J	CC UP050SL560J	56 PF 50V		1
C4074	CH4TSL4L1J	CC UP050SL330J	33 PF 50V		1
C4076	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C4077	P111T0223K	CP ECQM1H223KZ3	0.022 UF 50V		1
C4078	E011T5R47M	CE ECEA1HSR47B	0.47UF50V		1
C4081	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4082	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4085	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4086	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4087	CH4TSL4K1J	CC UP050SL270J	27 PF 50V		1
C4089	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4092	CH4TB04B2K	CC UP050 B121K	120 PF 50 V		1
C4093	CH4TB04Q2K	CC UP050 B471K	470 PF 50 V		1
C4094	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4095	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4096	CH4TB04W2K	CC UP050 B821K	820 PF 50 V		1
C4097	P111T0472K	CP ECQM1H472KZ3	0.0047UF 50V		1
C4099	C02TSL4A2K	CC RTHE80SJSL111K	110 PF	SL	1
C4101	CH4TB04B2K	CC UP050 B121K	120 PF 50 V		1
C4110	E01NT5R47M	CE ECEA1HKNR47B	0.47 UF 50V		1
C4111	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1
C4112	CH4TSL4S1J	CC UP050SL560J	56 PF 50V		1
C4113	CH4TB04H2K	CC UP050 B221K	220 PF 50 V		1
C4115	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C4117	P111T0682K	CP ECQM1H682KZ3	0.0068UF 50V		1
C4118	CH1TF0314Z	CC ECB-T1E103ZF5	10000 PF 25 V	ZF	1
C4120	E011T1101M	CE ECEA1AS101B	100UF10V		1
C4121	CH4TB04H2K	CC UP050 B221K	220 PF 50 V		1
C4122	CH4TB04E2J	CC UP050 B151J	150 PF 50 V		1
C4127	CH4TB04W1K	CC UP050 B820K	82 PF 50 V		1
C4130	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V		1
C4143	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V		1
C4144	C01VSL4Q2J	CC ECCR1H471J	470 PF 50V		1
C4145	C01VSL4B2J	CC ECCR1H121J	120 PF 50V		1
C4146	C01VSL4K2J	CC ECCR1H271J	270 PF 50V		1
C4148	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V		1
C4149	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C4150	CH4TB04W1K	CC UP050 B820K	82 PF 50 V		1
C4152	E011T1221M	CE ECEA1AS221B	220 UF 10 V		1
C4153	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4158	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4160	E013T2220M	CE ECEA1CK220B	22 UF 16 V		1
C4161	E013T53R3M	CE ECEA1HK3R3B	3.3 UF 50 V		1
C4163	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4164	CH4TSL4Q1J	CC UP050SL470J	47 PF 50V		1
C4165	E01ET34R7M	CE ECEA1EN4R7SB	4.7 UF 25V		1
C4166	E011T5R22M	CE ECEA1HSR22B	0.22 UF 50 V		1
C4167	E011T1101M	CE ECEA1AS101B	100UF10V		1
C4168	CH4TSL4N1J	CC UP050SL390J	39 PF 50V		1
C4177	E011T1470M	CE ECEA1AS470B	47UF10V		1
C4178	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C4180	E01201102M	CE ECEA1ASS102	1000 UF 10V		1
C4190	E011T1101M	CE ECEA1AS101B	100UF10V		1
C4193	P613T0153J	CMPL ECQV1H153JZ3	0.015 UF 50V		1
C4194	P613T0153J	CMPL ECQV1H153JZ3	0.015 UF 50V		1
C4213	E011T1101M	CE ECEA1AS101B	100UF10V		1
C4215	C010SL4G1J	CC ECCF1H180J	18 PF 50V	SL	1
C4216	C020SL4T1J	CC HE40SJSL620J	62 PF	SL	1
C5001	P341F2333J	CPP DTW-333J-200V	0.033 UF 200V		1
C5002	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5003	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V		1
C5004	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V		1
C5005	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5006	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V		1
C5008	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V		1
C5010	P613T0273J	CMPL ECQV1H273JZ3	0.027 UF 50V		1
C5011	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C5012	E011T52R2M	CE ECEA1HS2R2B	2.2 UF 50 V		1
C5013	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C5014	E011T2330M	CE ECEA1CS330B	33 UF 16 V		1
C5015	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5016	E011T2330M	CE ECEA1CS330B	33 UF 16 V		1
C5017	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5018	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C5020	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V		1
C5023	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5024	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C5025	CH4TB04S2K	CC UP050 B561K	560 PF 50 V		1
C5026	E011T2330M	CE ECEA1CS330B	33 UF 16 V		1
C5027	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5028	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5029	E011T2220M	CE ECEA1CS220B	22UF16V		1
C5030	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V		1
C5031	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C5032	E011T5010M	CE ECEA1HS010B	1 UF 50 V		1
C5033	P111T0102K	CP ECQM1H102KZ3	0.001 UF 50V		1
C5036	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C5037	E011F5010M	CE ECEA1HS010E	1 UF 50 V		1
C5038	C020B05Q2K	CC HM60SJYB471K	470 PF500V	B	1
C5039	P341F5392J	CPP DTW-392J-630V	0.0039UF 630V		1
C5040	E013T2100M	CE ECEA1CK100B	10 UF 16 V		1
C5041	E013T2470M	CE ECEA1CK470B	47 UF 16 V		1
C5042	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C5043	E013T5010M	CE ECEA1HK010B	1 UF 50 V		1
C5044	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C5101	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5102	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5103	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5104	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5105	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5106	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5107	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5108	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5109	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5110	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION			Q'TY
		-CAPACITORS-			
C5111	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5112	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5113	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5114	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5115	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5116	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5117	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5118	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5119	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5120	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5121	E011T2330M	CE ECEA1CS330B	33 UF 16 V		1
C5122	E011T53R3M	CE ECEA1HS3R3B	3.3UF50V		1
C5123	E011T53R3M	CE ECEA1HS3R3B	3.3UF50V		1
C5124	E011T53R3M	CE ECEA1HS3R3B	3.3UF50V		1
C5125	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C5126	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C5127	E011T53R3M	CE ECEA1HS3R3B	3.3UF50V		1
C5128	E011T53R3M	CE ECEA1HS3R3B	3.3UF50V		1
C5129	E011T53R3M	CE ECEA1HS3R3B	3.3UF50V		1
C5130	E011T1221M	CE ECEA1AS221B	220 UF 10 V		1
C5131	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5132	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5133	E011T2101M	CE ECEA1CS101B	100 UF 16 V		1
C5134	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C5135	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5136	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5137	C01VF04Q4Z	CC ECKR1H473ZF	47000 PF 50V		1
C5138	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5139	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5140	E011F2470M	CE ECEA1CS470E	47 UF 16 V		1
C5141	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5501	E01ET5010M	CE ECEA1HN010SB	1 UF 50 V		1
C5502	CH4TB04W2K	CC UP050 B821K	820 PF 50 V		1
C5503	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5504	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5505	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5506	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5511	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5512	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C5515	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C5516	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5517	E011T5470M	CE ECEA1HS470B	47UF50V		1
C5518	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5519	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5520	E011T2470M	CE ECEA1CS470B	47 UF 16 V		1
C5521	P613T0224J	CMPL ECQV1H224JZ3	0.22 UF 50V		1
C5522	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C5523	CH4TSL4S1J	CC UP050SL560J	56 PF 50V		1
C5524	C02TSL4P2J	CC RTHE90SJSL431J	430 PF	SL	1
C5526	CH4TY0214M	CC EP050 Y103M	10000 PF 16V		1
C5527	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5528	E011T5470M	CE ECEA1HU470B	47 UF 50 V		1
C5529	CH4TB0412K	CC UP050 B101K	100 PF 50 V		1
C5530	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5531	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5532	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5533	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5534	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5535	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5540	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5541	E011T2221M	CE ECEA1CU221B	220 UF 16 V		1
C5543	P02110271J	CST 50ST271J	270 PF 50V		1
C5544	C020CH412J	CC HE80SJCH101J	100 PF	NP0	1
C5545	CH4TB04Q2K	CC UP050 B471K	470 PF 50 V		1
C5546	E01101102M	CE ECEA1AS102	1000UF 10 V		1
C5547	P111T0153K	CP ECQM1H153KZ3	0.015 UF 50V		1
C5548	P111T0102K	CP ECQM1H102KZ3	0.001 UF 50V		1
C5549	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5550	E011T1221M	CE ECEA1AS221B	220 UF 10 V		1
C5551	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5552	P111T0153K	CP ECQM1H153KZ3	0.015 UF 50V		1
C5553	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5554	CH4TB04L2K	CC UP050 B331K	330 PF 50 V		1
C5555	CH4TB04L2K	CC UP050 B331K	330 PF 50 V		1
C5556	P613T0473J	CMPL ECQV1H473JZ3	0.047 UF 50 V		1
C5560	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5561	E011T2221M	CE ECEA1CU221B	220 UF 16 V		1
C5563	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5564	P02110271J	CST 50ST271J	270 PF 50V		1
C5565	C02BCH412J	CC HE80VJCH101J	100 PF	NPO	1
C5566	CH4TB04Q2K	CC UP050 B471K	470 PF 50 V		1
C5567	E01101102M	CE ECEA1AS102	1000UF 10 V		1
C5568	P111T0153K	CP ECQM1H153KZ3	0.015 UF 50V		1
C5569	P111T0102K	CP ECQM1H102KZ3	0.001 UF 50V		1
C5570	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V	ZF	1
C5572	E011T1221M	CE ECEA1AS221B	220 UF 10 V		1
C5573	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5574	P111T0153K	CP ECQM1H153KZ3	0.015 UF 50V		1
C5575	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5576	P111T0223K	CP ECQM1H223KZ3	0.022 UF 50V		1
C5578	E011T1470M	CE ECEA1AU470B	47 UF 10 V		1
C5580	E011T1471M	CE ECEA1AS471B	470UF10V		1
C5581	P613T0224J	CMPL ECQV1H224JZ3	0.22 UF 50V		1
C5582	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5583	E011T2330M	CE ECEA1CU330B	33 UF 16 V		1
C5585	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V		1
C5586	CH4TB0413K	CC UP050 B102K	1000 PF 50 V		1
C5587	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5588	E011T1220M	CE ECEA1AS220B	22UF10V		1
C5589	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5590	P111T0472J	CP ECQM1H472JZ3	0.0047UF 50 V		1
C5591	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V		1
C5592	P133T0223J	CPP AMZV50V223J	0.022 UF 50V		1
C5593	E011T2100M	CE ECEA1CS100B	10 UF 16 V		1
C5595	P613T0104J	CMPL ECQV1H104JB3	0.1 UF 50 V		1

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-CAPACITORS-		
C5596	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5597	CH4TY0214M	CC FP050 Y103M	10000 PF 16V	1
C5601	P613T0224J	CMPL ECQV1H224JZ3	0.22 UF 50V	1
C5602	E011T2100M	CE ECEA1CU100B	10 UF 16 V	1
C5603	E011T2330M	CE ECEA1CS330B	33 UF 16 V	1
C5605	P613T0333J	CMPL ECQV1H333JZ3	0.033 UF 50V	1
C5606	E011T2100M	CE ECEA1CU100B	10 UF 16 V	1
C5607	CH4TB0413K	CC UP050 B102K	1000 PF 50 V	1
C5608	E011T1220M	CE ECEA1AS220B	22UF10V	1
C5609	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5610	P111T0472J	CP ECQM1H472JZ3	0.0047UF 50 V	1
C5611	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V	1
C5612	P133T0223J	CPP AMZV50V223J	0.022 UF 50V	1
C5613	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5614	E011T1101M	CE ECEA1AS101B	100UF10V	1
C5620	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5621	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5622	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5623	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5624	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5625	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5626	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5627	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5628	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5629	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5630	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5631	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5632	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5633	P11100102J	CP ECQM1H102JZ	0.001 UF 50V	1
C5634	P111T0102J	CP ECQM1H102JZ3	0.001 UF 50V	1
C5635	P111T0392J	CP ECQM1H392JZ3	0.0039UF 50V	1
C5636	P613T0102J	CMPL ECQV1H102JZ3	0.001 UF 50V	1
C5637	P111T0392J	CP ECQM1H392JZ3	0.0039UF 50V	1
C5638	P613T0102J	CMPL ECQV1H102JZ3	0.001 UF 50V	1
C5639	P111T0682J	CP ECQM1H682JZ3	0.0068UF 50V	1
C5640	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V ZF	1
C5641	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5642	E011T2470M	CE ECEA1CS470B	47 UF 16 V	1
C5643	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V ZF	1
C5644	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V ZF	1
C5645	E011T3101M	CE ECEA1EU101B	100 UF 25 V	1
C5646	P111T0682J	CP ECQM1H682JZ3	0.0068UF 50V	1
C5647	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5648	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5650	E011T2220M	CE ECEA1CS220B	22UF16V	1
C5651	C010F04H4Z	CC ECKF1H223ZF	0.022 UF 50V F	1
C5652	E01102220M	CE ECEA1CS220	22 UF 16 V	1
C5701	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V ZF	1
C5702	E011T2470M	CE ECEA1CS470B	47 UF 16 V	1
C5703	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C5704	E011T2470M	CE ECEA1CS470B	47 UF 16 V	1
C5710	E011T2220M	CE ECRA1CS220B	22UF16V	1
C6001	E01101102M	CE ECEA1AS102	1000UF 10 V	1
C6002	E011T2470M	CE ECEA1CS470B	47 UF 16 V	1
C6003	E011T2470M	CE ECEA1CS470B	47 UF 16 V	1
C6005	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C6007	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C6008	P613T0473J	CMPL ECQV1H473JZ3	0.047 UF 50 V	1
C6009	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C6010	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V	1
C6011	E011T2470M	CE ECEA1CS470B	47 UF 16 V	1
C6012	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C6501	CH4TB04B2K	CC UP050 B121K	120 PF 50 V	1
C6502	CH4TSL4U0K	CC UP050SL6R8K	6.8 PF 50V	1
C6503	P111T0104K	CP ECQM1H104KV3	0.1 UF 50V	1
C6504	CH4TB04L2K	CC UP050 B331K	330 PF 50 V	1
C6505	E011T5R47M	CE ECEA1HSR47B	0.47UF50V	1
C6507	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V ZF	1
C6508	CH1TF03H4Z	CC ECB-T1E223ZF5	22000 PF 25 V ZF	1
C6509	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C6510	E011T2101M	CE ECEA1CS101B	100 UF 16 V	1
C6511	E011T52R2M	CE ECEA1HS2R2B	2.2 UF 50 V	1
C6512	E011T2220M	CE ECEA1CS220B	22UF16V	1
C6513	E011T2220M	CE ECEA1CS220B	22UF16V	1
C6514	P111T0682K	CP ECQM1H682KZ3	0.0068UF 50V	1
C6515	E01NT2100M	CE ECEA1CKN100B	10 UF 16V	1
C6516	CH4TB04G2K	CC UP050 B181K	180 PF 50 V	1
C6517	P111T0183J	CP ECQM1H183JZ3	0.018 UF 50V	1
C6518	P111T0222K	CP ECQM1H222KZ3	0.0022UF 50V	1
C6519	P111T0273K	CP ECQM1H273KV3	0.027 UF 50V	1
C6520	P111T0332K	CP ECQM1H332KZ3	0.0033UF 50V	1
C6521	P111T0222K	CP ECQM1H222KZ3	0.0022UF 50V	1
C6522	CH4TSL4S1J	CC UP050SL560J	56 PF 50V	1
C6523	P111T0332K	CP ECQM1H332KZ3	0.0033UF 50V	1
C6524	E011T54R7M	CE ECEA1HS4R7B	4.7UF50V	1
C6526	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C6527	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V	1
C6528	E01NT5010M	CE ECEA1HKN010B	1 UF 50V	1
C6529	E011T1101M	CE ECEA1AS101B	100UF10V	1
C6530	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C6531	P111T0103J	CP ECQM1H103JZ3	0.01 UF 50V	1
C6532	E01NT5010M	CE ECEA1HKN010B	1 UF 50V	1
C6533	E01NT5010M	CE ECEA1HKN010B	1 UF 50V	1
C6534	E01NT5010M	CE ECEA1HKN010B	1 UF 50V	1
C6535	E011T52R2M	CE ECEA1HS2R2B	2.2 UF 50 V	1
C6536	E011T52R2M	CE ECEA1HS2R2B	2.2 UF 50 V	1
C6537	E011T2221M	CE ECEA1CS221B	220 UF 16 V	1
C6538	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C6539	E011T50R1M	CE ECEA1HS0R1B	0.1 UF 50 V	1
C6540	P111T0473K	CP ECQM1H473KV3	0.047 UF 50V	1
C6541	P111T0102K	CP ECQM1H102KZ3	0.001 UF 50V	1
C6542	P111T0103K	CP ECQM1H103KZ3	0.01 UF 50V	1
C6543	E011T5010M	CE ECEA1HS010B	1 UF 50 V	1
C6544	P541F0562J	CPI DSR-562J-50V	0.0056UF 50V	1
C6545	P111T0102K	CP ECQM1H102KZ3	0.001 UF 50V	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-CAPACITORS-		
C6546	P111T0102K	CP ECQM1H102KZ3	0.001 UF 50V	1
C6547	E011T5R22M	CE ECEA1HSR22B	0.22 UF 50 V	1
C6549	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C6550	E011T2100M	CE ECEA1CS100B	10 UF 16 V	1
C6551	P111T0222K	CP ECQM1H222KZ3	0.0022UF 50V	1
C6552	P111T0222K	CP ECQM1H222KZ3	0.0022UF 50V	1
		-SEMICONDUCTORS-		
D301	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D302	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D307	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D308	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D310	D140000810	DIODE,SILICON	1SS81	1
D311	D93T03600Z	DIODE,ZENER	GZA36 Z BT	1
D313	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D314	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D315	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D316	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D321	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D322	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D324	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
⚠ D501	D2LF0P300D	DIODE RECTIFIER P300DL		1
⚠ D502	D2LF0P300D	DIODE RECTIFIER P300DL		1
⚠ D503	D2LF0P300D	DIODE RECTIFIER P300DL		1
⚠ D504	D2LF0P300D	DIODE RECTIFIER P300DL		1
⚠ D505	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
⚠ D506	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
⚠ D507	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D508	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D509	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D510	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D511	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D512	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D513	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
⚠ D514	D28F010D10	DIODE,RECTIFIER	10D-1 FC	1
D601	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D602	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D603	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D604	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D605	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D606	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D607	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D609	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D610	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D611	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D613	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D614	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D615	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D616	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D617	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D618	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D619	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D620	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D621	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D622	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D623	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D624	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D625	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D626	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D627	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D628	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D629	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D630	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D631	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D635	D92006R8B2	DIODE,ZENER	RD6.8EB 2	1
D636	D920A4R7J1	DIODE,ZENER	RD4R7J B1	1
D637	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D638	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D640	0021520060	LED	TLR123	1
D641	0021520060	LED	TLR123	1
D642	0021520060	LED	TLR123	1
D645	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D646	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1002	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1003	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1004	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1008	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1010	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1011	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1012	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1013	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1014	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1016	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1017	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1018	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1019	D940A7R501	DIODE,ZENER	HZS7.5JB 1	1
D1020	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1201	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1203	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D1205	0021520010	LED	TLR113A	1
D2003	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2004	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2005	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2006	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2007	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2008	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2013	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2016	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2018	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2019	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2020	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2021	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2022	D940A6R2J3	DIODE,ZENER	HZS6R2JB3	1
D2501	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2502	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2503	D13TGMA010	DIODE,SILICON	GMA-01-BT	1

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-SEMICONDUCTORS-		
D2504	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2505	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D2506	D940A6R201	DIODE.ZENER	HZS6.2JB 1	1
D2507	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D3002	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D3003	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D3005	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D3701	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D3702	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D4002	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D4005	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D4020	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D4026	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D4027	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D4031	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5001	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D5002	D14T0S1980	DIODE,SILICON	1SS198T	1
D5003	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D5004	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5005	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D5006	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D5007	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5010	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5102	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5103	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5104	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5105	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5501	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5502	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5503	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5504	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D5505	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D5506	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5507	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5508	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5510	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5511	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5512	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5513	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D5521	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6001	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D6002	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D6501	D0J000A900	DIODE.GERMANIUM	OA-90	1
D6502	D0J000A900	DIODE,GERMANIUM	OA-90	1
D6503	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6504	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D6505	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6506	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6507	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6508	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6509	D13TGMA010	DIODE,SILICON	GMA-01-BT	1
D6510	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6511	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6512	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6513	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
D6514.	D13TGMA010	DIODE.SILICON	GMA-01-BT	1
IC301	I56D070010	INTERGRATED CIRCUIT	OEC7001	1
IC302	I36D08653P	INTERGRATED CIRCUIT	M58653P	1
⚠ IC304	I03S079100	INTERGRATED CIRCUIT	LA7910	1
IC305	I05D075358	INTERGRATED CIRCUIT	TA75358P	1
IC306	I02990574J	INTERGRATED CIRCUIT	UPC574J	1
⚠ IC501	I23S954220	INTERGRATED CIRCUIT	STK5422	1
IC601	I54D00008B	INTERGRATED CIRCUIT	OEC0008B	1
IC602	I2M3T4M190	INTERGRATED CIRCUIT	LQV-4M194304-012	1
IC1001	I54D500070	INTERGRATED CIRCUIT	OEC0007	1
IC1002	I05D12504P	INTERGRATED CIRCUIT	TD62504P	1
⚠ IC1003	I07S062390	INTERGRATED CIRCUIT	BA6239	1
IC1004	I05D12504P	INTERGRATED CIRCUIT	TD62504P	1
IC1005	I05D12064P	INTERGRATED CIRCUIT	TD62064P	1
IC2001	I94D41827N	INTERGRATED CIRCUIT	HA11827NT	1
IC2002	I07S463050	INTERGRATED CIRCUIT	BA6305	1
IC2003	I03D063240	INTERGRATED CIRCUIT	LA6324	1
IC2004	I07D463030	INTERGRATED CIRCUIT	BA6303	1
IC2005	I57D040520	INTERGRATED CIRCUIT	BU4052B	1
IC3001	I03D370350	INTERGRATED CIRCUIT	LA7035	1
IC3701	I07D070070	INTERGRATED CIRCUIT	BA7007L	1
IC4001	I03D370340	INTERGRATED CIRCUIT	LA7034	1
IC4002	I03D370310	INTERGRATED CIRCUIT	LA7031	1
IC5001	I07T051150	INTERGRATED CIRCUIT	BA5115	1
IC5002	I05S77361A	INTERGRATED CIRCUIT	TA7361AP	1
IC5101	I57D040660	INTERGRATED CIRCUIT	BU4066B	1
IC5102	I07S007150	INTERGRATED CIRCUIT	BA715DX	1
IC5103	I06S05218L	INTERGRATED CIRCUIT	M5218L	1
IC5104	I05S77324P	INTERGRATED CIRCUIT	TA7324P	1
IC5501	I02S31522H	INTERGRATED CIRCUIT	UPC1522HA	1
IC5502	I04D32072N	INTERGRATED CIRCUIT	HA11752	1
IC5503	I04D72074N	INTERGRATED CIRCUIT	HA12074NT	1
IC5504	I04D72072A	INTERGRATED CIRCUIT	HA12072ANT	1
IC5505	I03D072200	INTERGRATED CIRCUIT	LA7220	1
IC5506	I03D072200	INTERGRATED CIRCUIT	LA7220	1
IC5507	I05S07348P	INTERGRATED CIRCUIT	TA7348P	1
IC5508	I55D5HC74P	INTERGRATED CIRCUIT	TC74HC74P	1
IC5509	I55D5HCU04	INTERGRATED CIRCUIT	TC74HCU04	1
IC6501	I0EDF49400	INTERGRATED CIRCUIT	TDA4940	1
IC6502	I03D063930	INTERGRATED CIRCUIT	LA6393D	1
IC6503	I57D040520	INTERGRATED CIRCUIT	BU4052B	1
IC6504	I03D063240	INTERGRATED CIRCUIT	LA6324	1
IC6505	I03S078080	INTERGRATED CIRCUIT	LA7808	1
IC6506	I03S079120	INTERGRATED CIRCUIT	LA7912	1
Q301	TC3T0536K0	TRANSISTOR SILICON	2SC536KNP-T	1
Q302	TC3T0536K0	TRANSISTOR SILICON	2SC536KNP-T	1
Q303	TC3T0536K0	TRANSISTOR SILICON	2SC536KNP-T	1
Q304	TC3T0536K0	TRANSISTOR SILICON	2SC536KNP-T	1
Q305	TN7TC03001	COMPOUND.TRANSISTOR	DTC124E S-T	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-SEMICONDUCTORS-		
Q306	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q307	TC3T0536K0	TRANSISTOR SILICON	2SC536KNP-T	1
Q308	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q309	TC2T009450	TRANSISTOR SILICON	2SC945-T	1
Q310	TC2T009450	TRANSISTOR SILICON	2SC945-T	1
Q501	TB50010150	TRANSISTOR SILICON	2SB1015	1
Q602	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q603	TC300536S0	TRANSISTOR SILICON	2SC536SP	1
Q604	TC300536S0	TRANSISTOR SILICON	2SC536SP	1
Q605	TC300536S0	TRANSISTOR SILICON	2SC536SP	1
Q607	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q608	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q611	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q612	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q613	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q620	TC300536S0	TRANSISTOR SILICON	2SC536SP	1
Q1001	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q1002	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q1003	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q1004	TC70020210	TRANSISTOR SILICON	2SC2021	1
Q1005	TC70020210	TRANSISTOR SILICON	2SC2021	1
Q1006	TC70020210	TRANSISTOR SILICON	2SC2021	1
Q1007	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q1010	TD3T012460	TRANSISTOR SILICON	2SD1246-T	1
Q1011	TA3T006080	TRANSISTOR SILICON	2SA608NP-T	1
Q1012	TA3T006080	TRANSISTOR SILICON	2SA608NP-T	1
Q1013	TB3T009260	TRANSISTOR SILICON	2SB926-T	1
Q1014	TB3T009260	TRANSISTOR SILICON	2SB926-T	1
Q1015	TB3T009260	TRANSISTOR SILICON	2SB926-T	1
Q1016	TA70009370	TRANSISTOR SILICON	2SA937	1
Q1017	TC30031350	TRANSISTOR,SILICON	2SC3135	1
Q1018	TA70009370	TRANSISTOR SILICON	2SA937	1
Q1019	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
⚠ Q1020	TD3T012460	TRANSISTOR SILICON	2SD1246-T	1
Q1021	TC3T03332T	TRANSISTOR SILICON	2SC3332T-T	1
Q2001	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2002	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2003	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2004	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2005	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2006	TA3T006080	TRANSISTOR SILICON	2SA608NP-T	1
Q2009	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2010	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2011	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2012	TA3T006080	TRANSISTOR SILICON	2SA608NP-T	1
⚠ Q2013	TD50014060	TRANSISTOR SILICON	2SD1406	1
Q2014	TA3T006080	TRANSISTOR SILICON	2SA608NP-T	1
⚠ Q2015	TD3T012460	TRANSISTOR SILICON	2SD1246-T	1
Q2016	TA3T006080	TRANSISTOR SILICON	2SA608NP-T	1
Q2501	TA3T009840	TRANSISTOR SILICON	2SA984-T	1
Q2502	TC3T2274K0	TRANSISTOR SILICON	2SC2274K-T	1
Q2503	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2504	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q2505	TC3T2274K0	TRANSISTOR SILICON	2SC2274K-T	1
Q3001	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3002	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3003	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3005	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3006	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3008	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3009	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3010	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3701	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3702	TN3TC03001	COMPOUND,TRANSISTOR	2SC3400-T	1
Q3703	TN3TC03001	COMPOUND,TRANSISTOR	2SC3400-T	1
Q3704	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q3705	TC3T034000	TRANSISTOR SILICON	2SC3400T	1
Q4001	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4002	TC3T034000	TRANSISTOR SILICON	2SC3400T	1
Q4003	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4004	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4005	TC3T2274K0	TRANSISTOR SILICON	2SC2274K-T	1
Q4006	TD3T007340	TRANSISTOR SILICON	2SD734-T	1
Q4008	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4009	TA3T0608S0	TRANSISTOR SILICON	2SA608SP-AC	1
Q4010	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4011	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4012	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4013	TA3T0608S0	TRANSISTOR SILICON	2SA608SP-AC	1
Q4014	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4015	TC3T2274K0	TRANSISTOR SILICON	2SC2274K-T	1
Q4016	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4019	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q4020	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q5004	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5005	TC2T020010	TRANSISTOR SILICON	2SC2001-T	1
Q5006	TC2T020010	TRANSISTOR SILICON	2SC2001-T	1
Q5007	TC30031350	TRANSISTOR,SILICON	2SC3135	1
Q5008	TN7TB03001	COMPOUND,TRANSISTOR	DTC114E S-T	1
Q5009	TC3T0536S0	TRANSISTOR SILICON	2SC536SP-AC	1
Q5101	TC30005360	TRANSISTOR SILICON	2SC536NP	1
Q5102	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5103	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5104	TC30005360	TRANSISTOR SILICON	2SC536NP	1
Q5105	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5106	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q5107	TN7TC03001	COMPOUND,TRANSISTOR	DTC124E S-T	1
Q5110	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5501	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5503	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5504	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5505	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5506	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5507	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1
Q5508	TC3T005360	TRANSISTOR SILICON	2SC536NP-T	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION	Q'TY
		-SEMICONDUCTORS-	
Q5509	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q5510	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q5511	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q5512	TA3T006080	TRANSISTOR SILICON 2SA608NP-T	1
Q5513	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q5514	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q5515	TN7TC03001	COMPOUND,TRANSISTOR DTC124E S-T	1
Q5516	TN7TC03001	COMPOUND,TRANSISTOR DTC124E S-T	1
Q5517	TN7TC03001	COMPOUND,TRANSISTOR DTC124E S-T	1
Q5518	TN7TC03001	COMPOUND,TRANSISTOR DTC124E S-T	1
Q5521	TA3T006080	TRANSISTOR SILICON 2SA608NP-T	1
Q5524	TN7TC03001	COMPOUND,TRANSISTOR DTC124E S-T	1
Q6001	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6003	T25T030AT0	TRANSISTOR,FIELD EFFECT 2SK30ATM-T	1
Q6005	T25T030AT0	TRANSISTOR,FIELD EFFECT 2SK30ATM-T	1
Q6006	TP7TC03001	COMPOUND TRANSISTOR DTA124E S-T	1
Q6501	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6502	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6503	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6504	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6505	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6506	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6509	TN7TB03001	COMPOUND,TRANSISTOR DTC114E S-T	1
Q6510	TN7TB03001	COMPOUND,TRANSISTOR DTC114E S-T	1
Q6511	TD3T007340	TRANSISTOR SILICON 2SD734-T	1
Q6512	TD3T007340	TRANSISTOR SILICON 2SD734-T	1
Q6514	TA3T006080	TRANSISTOR SILICON 2SA608NP-T	1
Q6515	TC3T005360	TRANSISTOR SILICON 2SC536NP-T	1
Q6516	TN7TB03001	COMPOUND,TRANSISTOR DTC114E S-T	1
		- COILS & TRANSFORMERS-	
L301	021673470K	COIL EL0606RA-470K 47 UH	1
L302	021JB1150K	COIL LAL04SK 150K 15 UH	1
L303	021JB1150K	COIL LAL04SK 150K 15 UH	1
L3001	021673101K	COIL EL0606RA-101K 100 UH	1
L3002	021673101K	COIL EL0606RA-101K 100 UH	1
L3003	021JA6150K	COIL LAL02T150K-T 15 UH TA	1
L3005	021JA6390K	COIL LAL02T390K-T 39 UH TA	1
L3007	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L3009	021679822J	COIL EL0909RR-822J 8.2 MH	1
L3701	021673101K	COIL EL0606RA-101K 100 UH	1
L3702	021804123J	COIL RX9P-123J-80 12 MH	1
L3704	021JA6560K	COIL LAL02T560K-T 56 UH TA	1
L4002	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L4003	021JA6270K	COIL LAL02T270K-T 27 UH TA	1
L4004	021JA6220K	COIL LAL02T220K-T 22 UH TA	1
L4006	021673101K	COIL EL0606RA-101K 100 UH	1
L4007	021673221K	COIL EL0606RA-221K 220 UH	1
L4010	021673101K	COIL EL0606RA-101K 100 UH	1
L4011	021JA6390K	COIL LAL02T390K-T 39 UH TA	1
L4013	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L4014	021JA6390K	COIL LAL02T390K-T 39 UH TA	1
L4020	021673101K	COIL EL0606RA-101K 100 UH	1
L4021	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L4022	021JA6100K	COIL LAL02T100K-T 10 UH TA	1
L4023	021JA6560K	COIL LAL02T560K-T 56 UH TA	1
L4025	021673151K	COIL EL0606RA-151K 150 UH	1
L4026	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L4028	021JA6680K	COIL LAL02T680K-T 68 UH TA	1
L4030	021JA6151K	COIL LAL02T151K-T 150 UH TA	1
L4040	021673101K	COIL EL0606RA-101K 100 UH	1
L4044	021JA6470K	COIL LAL02T470K-T 47 UH TA	1
L4046	021JA6330K	COIL LAL02T330K-T 33 UH TA	1
L4050	021673101K	COIL EL0606RA-101K 100 UH	1
L5001	021679102K	COIL EL0909RR-102K 1 MH	1
⚠ L5002	021679102K	COIL EL0909RR-102K 1 MH	1
L5003	021673101K	COIL EL0606RA-101K 100 UH	1
L5004	021679682K	COIL EL0909RR-682K 6.8 MH	1
L5005	021673101K	COIL EL0606RA-101K 100 UH	1
L5006	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L5501	021673101K	COIL EL0606RA-101K 100 UH	1
L5502	021673101K	COIL EL0606RA-101K 100 UH	1
L5503	021JA6151K	COIL LAL02T151K-T 150 UH TA	1
L5504	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L5505	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L5506	021JA6560K	COIL LAL02T560K-T 56 UH TA	1
L5509	021673101K	COIL EL0606RA-101K 100 UH	1
L5510	021673101K	COIL EL0606RA-101K 100 UH	1
L5512	021673101K	COIL EL0606RA-101K 100 UH	1
L5513	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L5515	021673101K	COIL EL0606RA-101K 100 UH	1
L5516	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L5517	021673101K	COIL EL0606RA-101K 100 UH	1
L5550	021JA6101K	COIL LAL02T101K-T 100 UH TA	1
L6001	021673101K	COIL EL0606RA-101K 100 UH	1
L6002	021673101K	COIL EL0606RA-101K 100 UH	1
L6003	021673101K	COIL EL0606RA-101K 100 UH	1
L6501	021673470K	COIL EL0606RA-470K 47 UH	1
L6502	021673471K	COIL EL0606RA-471K 470 UH	1
⚠ T501	0405720011	TRANSFORMER,POWER AC 0572001	1
T5001	0316120028	COIL BIAS OSC 16120028	1
T5002	0316120018	COIL BIAS OSC 16120018	1
		-JACK & CONNECTORS-	
J1201	0612121001	JACK RCA 3.5 HSJ0842-01-010	1
J1202	0602111003	JACK RCA 3.5 HSJ0912-1-040	1
J5502	0602221002	JACK RCA 2.5 HSJ0465-01-020	1
J5501	0632000010	JACK PLATE JXT0670-01-010	1
		-SWITCHES-	
SW601	0510322002	SWITCH SLIDE HSW0932-01-040	1
SW602	0510331007	SWITCH SLIDE HSW0931-01-030	1
SW603	0504701001	SWITCH TACT B3F-1000	1
SW604	0504701001	SWITCH TACT B3F-1000	1
SW605	0504701001	SWITCH TACT B3F-1000	1
SW606	0504701001	SWITCH TACT B3F-1000	1
SW607	0504701001	SWITCH TACT B3F-1000	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-SWITCHES-		
SW609	0504701001	SWITCH TACT	B3F-1000	1
SW610	0504701001	SWITCH TACT	B3F-1000	1
SW611	0504701001	SWITCH TACT	B3F-1000	1
SW613	0504701001	SWITCH TACT	B3F-1000	1
SW614	0504701001	SWITCH TACT	B3F-1000	1
SW615	0504701001	SWITCH TACT	B3F-1000	1
SW616	0504701001	SWITCH TACT	B3F-1000	1
SW617	0504701001	SWITCH TACT	B3F-1000	1
SW618	0504701001	SWITCH TACT	B3F-1000	1
SW619	0504701001	SWITCH TACT	B3F-1000	1
SW620	0504701001	SWITCH TACT	B3F-1000	1
SW621	0504701001	SWITCH TACT	B3F-1000	1
SW622	0504701001	SWITCH TACT	B3F-1000	1
SW623	0504701001	SWITCH TACT	B3F-1000	1
SW624	0504701001	SWITCH TACT	B3F-1000	1
SW625	0504701001	SWITCH TACT	B3F-1000	1
SW626	0504701001	SWITCH TACT	B3F-1000	1
SW627	0504701001	SWITCH TACT	B3F-1000	1
SW628	0504701001	SWITCH TACT	B3F-1000	1
SW629	0504701001	SWITCH TACT	B3F-1000	1
SW630	0504701001	SWITCH TACT	B3F-1000	1
SW631	0504701001	SWITCH TACT	B3F-1000	1
SW632	0510331007	SWITCH SLIDE	HSW0931-01-030	1
SW633	0510321002	SWITCH SLIDE	HSW0932-01-030	1
SW634	0510321002	SWITCH SLIDE	HSW0932-01-030	1
SW635	0510321002	SWITCH SLIDE	HSW0932-01-030	1
SW636	0510341001	SWITCH SLIDE	HSW0942-01-30	1
SW637	0501101004	SWITCH PUSH	ESE-153A	1
SW1201	0504701001	SWITCH TACT	B3F-1000	1
SW1203	0504701001	SWITCH TACT	B3F-1000	1
SW5501	0510321003	SWITCH SLIDE	HSW0805-01-020	1
		-SEMI-FIXED RESISTORS-		
VR601	V014025B01	VOLUME,ROTALY	EVU-F3AM20B25	1
VR603	V244B21B01	VOLUME,SLIDE	VJ4513-2DPVN	1
VR1001	V1262H3B01	VOLUME SEMI FIXED	H0614C109-2.2KB	1
VR2001	V1262H4B03	VOLUME SEMI FIXED	H0622A015-22KB	1
VR2002	V1262Q5B01	VOLUME SEMI FIXED	H0614C123-470KB	1
VR2003	V1262Q5B01	VOLUME SEMI FIXED	H0614C123-470KB	1
VR2005	V126215B01	VOLUME SEMI FIXED	H0614C119-100KB	1
VR2008	V1262L5B01	VOLUME SEMI FIXED	H0614C122-330KB	1
VR2009	V1262Q4B01	VOLUME SEMI FIXED	H0614C117-47KB	1
VR2010	V1262Q4B01	VOLUME SEMI FIXED	H0614C117-47KB	1
VR2501	V1263H3B01	VOLUME SEMI FIXED	H0615C109-2.2KB	1
VR3002	V126313B01	VOLUME SEMI FIXED	H0615C107-1KB	1
VR3003	V126314B01	VOLUME SEMI FIXED	H0615C113-10KB	1
VR3004	V126314B01	VOLUME SEMI FIXED	H0615C113-10KB	1
VR3005	V1263Q3B01	VOLUME SEMI FIXED	H0615C111-4.7KB	1
VR3701	V126313B01	VOLUME SEMI FIXED	H0615C107-1KB	1
VR4001	V126313B01	VOLUME SEMI FIXED	H0615C107-1KB	1
VR4002	V1263U3B01	VOLUME SEMI FIXED	H0615C112-6.8KB	1
VR4005	V1263H3B01	VOLUME SEMI FIXED	H0615C109-2.2KB	1
VR4006	V126314B01	VOLUME SEMI FIXED	H0615C113-10KB	1
VR4007	V1263Q3B01	VOLUME SEMI FIXED	H0615C111-4.7KB	1
VR4008	V126314B01	VOLUME SEMI FIXED	H0615C113-10KB	1
VR4015	V126314B01	VOLUME SEMI FIXED	H0615C113-10KB	1
VR4016	V1263Q2B01	VOLUME SEMI FIXED	H0615C105-470B	1
VR4017	V126314B01	VOLUME SEMI FIXED	H0615C113-10KB	1
VR5001	V146255B01	VOLUME SEMI FIXED	VM6CK-PH(1S)B500K	1
VR5002	V126214B01	VOLUME SEMI FIXED	H0614C113-10KB	1
VR5501	V116313B02	VOLUME SEMI FIXED	EVN-D4AA00B13	1
VR5502	V116313B02	VOLUME SEMI FIXED	EVN-D4AA00B13	1
VR5503	V1163Q4B02	VOLUME SEMI FIXED	EVN-D4AA00BQ4	1
VR5504	V1163H4B02	VOLUME SEMI FIXED	EVN-D4AA00BE4	1
VR5505	V116352B02	VOLUME SEMI FIXED	EVN-D4AA00B52	1
VR5506	V1163Q5B02	VOLUME SEMI FIXED	EVN-D4AA00BQ5	1
VR5507	V146355B01	VOLUME SEMI FIXED	VM6CKPV(1S)B500K	1
VR5508	V1163Q4B02	VOLUME SEMI FIXED	EVN-D4AA00BQ4	1
VR5509	V116352B02	VOLUME SEMI FIXED	EVN-D4AA00B52	1
VR5510	V1163H4B02	VOLUME SEMI FIXED	EVN-D4AA00BE4	1
VR5511	V116313B02	VOLUME SEMI FIXED	EVN-D4AA00B13	1
VR6501	V1262H3B01	VOLUME SEMI FIXED	H0614C109-2.2KB	1
VR6502	V1262Q3B01	VOLUME SEMI FIXED	H0614C111-4.7KB	1
		-P.C. BOARDS-		
PCB051	13VP0023A1	PCB	VP0023A	1
PCB061	13VE0090D1	PCB	VE0090D	1
PCB062	13VE0093D1	PCB	VE0093D	1
PCB101	13VC0045B1	PCB	VC0045B	1
PCB121	13VC0040C1	PCB	VC0040C	1
PCB122	13VE0092C1	PCB	VE0092C	1
PCB401	13VV0029B1	PCB	VV0029B	1
PCB501	13VE0091C1	PCB	VE0091C	1
PCB551	13VV0026D1	PCB	VV0026D	1
PCB602	13VE0097A1	PCB VE0097A		1
PCB651	13VV0028A1	PCB	VV0028A	1
		-MISCELLANEOUS-		
BT1201	1412004001	BATTERY.MANGAN	UM-4(SP)	2
⚠ CD505	1201450001	CORD AC BUSH E2N	7FEET DAIWA	1
CD601	068319017A	CORD EIS CONNECTOR	8319017A	1
CP501	06941F0060	CONNECTOR PCB SIDE	1-172681-5 UX-V	1
CP502	0694120019	CONNECTOR PCB SIDE	171825-2	1
⚠ CT301	04910001B1	CONVERTER DC/DC	910001B	1
CV501	12AL10002A	COVER AC CORD	SB-1235B-U09	1
CD1001	06831F004A	CORD EIS CONNECTOR	831F004A	1
CD1004	06831B006A	CORD EIS CONNECTOR	831B006A	1
CD1009	068319014A	CORD EIS CONNECTOR	8319014A	1
CD1010	06831B005A	CORD EIS CONNECTOR	831B005A	1
CD1101	068301045A	CORD CONNECTOR	8301045A	1
CD1102	068301045A	CORD CONNECTOR	8301045A	1
CD1106	068301047A	CORD CONNECTOR	8301047A	1
CD1108	068301063A	CORD CONNECTOR 8301063A		1
CD1201	06832F001A	CORD EIS CONNECTOR	832F001A	1
CD1202	068312123A	CORD EIS CONNECTOR	8312123A	1
CD1203	068301062A	CORD CONNECTOR	8301062A	1
CD2001	068317066A	CORD EIS CONNECTOR	8317066A	1
CD2003	068318028A	CORD EIS CONNECTOR	8318028A	1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION			Q'TY
		-MISCELLANEOUS-			
CD2004	068317071A	CORD EIS CONNECTOR	8317071A		1
CD2005	068312119A	CORD EIS CONNECTOR	8312119A		1
CD2006	06831A018A	CORD EIS CONNECTOR	831A018A		1
CD2501	06831F003A	CORD EIS CONNECTOR	831F003A		1
CD5519	068312118A	CORD EIS CONNECTOR	8312118A		1
CD5520	068317070A	CORD EIS CONNECTOR	8317070A		1
CD5521	068317072A	CORD EIS CONNECTOR	8317072A		1
CD5522	068315046A	CORD EIS CONNECTOR	8315046A		1
CD5524	068315047A	CORD EIS CONNECTOR	8315047A		1
CD5525	068317074A	CORD EIS CONNECTOR	8317074A		1
CD5526	068301062A	CORD CONNECTOR	8301062A		1
CD6001	06831F005A	CORD EIS CONNECTOR	831F005A		1
CD6002	0682H37001	CORD COAXIAL	82H37001		1
CD6011	0680L07002	CABLE.PAL	DPP-DSP3CL		1
CD6012	0680BK0002	CORD.RCA PIN	0680BK0002		1
CD6501	068315050A	CORD EIS CONNECTOR	8315050A 8315050A		1
CF3701	10114R1703	FILTER CERAMIC	EFCS4R17MS4A		1
CF6501	101205R742	FILTER CERAMIC	SFE5.74MC2		1
CF6502	101225R741	FILTER.CERAMIC DISCRIMINATOR	CDA5R74MC10		1
CP1001	06941F0069	CONNECTOR PCB SIDE	7-172681-5	UX-V	1
CP1102	0694190070	CONNECTOR PCB SIDE	172683-9	UX-H	1
CP1105	0694180079	CONNECTOR PCB SIDE	6-172683-8	UX-H	1
CP1106	06941B0070	CONNECTOR PCB SIDE	1-172683-1	UX-H	1
CP1107	06941B0079	CONNECTOR PCB SIDE	7-172683-1	UX-H	1
CP1201	06942F0010	CONNECTOR PCB SIDE	1-172429-5		1
CP1202	0694120066	CONNECTOR PCB SIDE	2-172681-2	UX-V	1
CP2002	0694120060	CONNECTOR PCB SIDE	172681-2		1
CP2005	0694120060	CONNECTOR PCB SIDE	172681-2		1
CP2006	06941A0060	CONNECTOR PCB SIDE	1-172681-0	UX-V	1
CP4019	0694120069	CONNECTOR PCB SIDE	6-172681-2	UX-V	1
CP4001	0694160019	CONNECTOR PCB SIDE	171825-6		1
CP4020	0694170060	CONNECTOR PCB SIDE	172681-7	UX-V	1
CP4021	0694170069	CONNECTOR PCB SIDE	6-172681-7	UX-V	1
CP4022	0694150060	CONNECTOR PCB SIDE	172681-5	UX-V	1
CP5001	0694150060	CONNECTOR PCB SIDE	172681-5	UX-V	1
CP5002	0694120060	CONNECTOR PCB SIDE	172681-2		1
CP5003	0694120066	CONNECTOR PCB SIDE	2-172681-2	UX-V	1
CP5519	0694160019	CONNECTOR PCB SIDE	171825-6		1
CP5525	0694150070	CONNECTOR PCB SIDE	172683-5	UX-H	1
CP6001	06941F0060	CONNECTOR PCB SIDE	1-172681-5	UX-V	1
CP6501	0694160070	CONNECTOR PCB SIDE	172683-6	UX-H	1
CX0309	069R2A0049	CONNECTOR PCB SIDE	5532-10A		1
CX0310	069R2G0049	CONNECTOR PCB SIDE	5532-16A		1
CX0605	069R130089	CONNECTOR PCB SIDE	3022-03B		1
CX0606	069R140089	CONNECTOR PCB SIDE	3022-04B		1
CX1001	069R2C0049	CONNECTOR PCB SIDE	5532-12A		1
CX1002	069R260049	CONNECTOR PCB SIDE	5532-06A		1
CX1003	069R260049	CONNECTOR PCB SIDE	5532-06A		1
CX1004	069R260049	CONNECTOR PCB SIDE	5532-06A		1
CX1211	069R280049	CONNECTOR PCB SIDE	5532-08A		1
CX5507	069R2C0049	CONNECTOR PCB SIDE	5532-12A		1
CX5508	069R2C0049	CONNECTOR PCB SIDE	5532-12A		1
CX5512	069R240079	CONNECTOR PCB SIDE	5512-04A		1
CX5513	069R250079	CONNECTOR PCB SIDE	5512-05A		1
CX5514	069R250079	CONNECTOR PCB SIDE	5512-05A		1
CX5515	069R2A0049	CONNECTOR PCB SIDE	5532-10A		1
CX5516	069R280079	CONNECTOR PCB SIDE	5512-08A		1
CX5517	069R280079	CONNECTOR PCB SIDE	5512-08A		1
CX5518	069R2C0049	CONNECTOR PCB SIDE	5532-12A		1
CX5519	069R240049	CONNECTOR PCB SIDE	5532-04A		1
CY0601	069R2C0029	CONNECTOR PCB SIDE	5533-12APB		1
CY0602	069R260029	CONNECTOR PCB SIDE	5533-06APB		1
CY0605	069R130099	CONNECTOR PCB SIDE	5124-03BH		1
CY0606	069R140099	CONNECTOR PCB SIDE	5124-04BH		1
CY0607	069R2C0029	CONNECTOR PCB SIDE	5533-12APB		1
CY0608	069R2C0029	CONNECTOR PCB SIDE	5533-12APB		1
CY0609	069R2A0029	CONNECTOR PCB SIDE	5533-10APB		1
CY0610	069R2G0029	CONNECTOR PCB SIDE	5533-16APB		1
CY1203	069R260029	CONNECTOR PCB SIDE	5533-06APB		1
CY1204	069R260029	CONNECTOR PCB SIDE	5533-06APB		1
CY1211	069R280029	CONNECTOR PCB SIDE	5533-08APB		1
CY5015	069R2A0029	CONNECTOR PCB SIDE	5533-10APB		1
CY5016	069R280089	CONNECTOR.PCB-PCB	5513-08APB		1
CY5017	069R280089	CONNECTOR.PCB-PCB	5513-08APB		1
CY5018	069R2C0029	CONNECTOR PCB SIDE	5533-12APB		1
CY5019	069R240029	CONNECTOR PCB SIDE	5533-04APB		1
CY6512	069R240089	CONNECTOR.PCB-PCB	5513-04APB		1
CY6513	069R250089	CONNECTOR.PCB-PCB	5513-05APB		1
CY6514	069R250089	CONNECTOR.PCB-PCB	5513-05APB		1
DL3001	104A24R432	DELAY LINE GLASS	ADL-SE1844R-B05		1
DL4001	104A14R435	DELAY LINE GLASS	ADL-CP1245R-A03		1
DL4002	103802R901	DELAY	3802R901		1
DL4003	103802R102	DELAY	3802R102		1
⚠ F501	0802T01001	FUSE	FST 1 A (T) 250V		1
⚠ F502	0802T2R501	FUSE	FST 2.5 A (T) 250V		1
⚠ F503	0802T1R601	FUSE	FST 1.6 A (T) 250V		1
⚠ F504	0802T1R201	FUSE	FST 1.25A (T) 250V		1
FH501	0672000001	HOLDER FUSE	NPF0109-02-010		8
⚠ ICP201	084700R802	IC PROTECTOR	ICP-N20		1
ICP301	08470R2501	IC PROTECTOR	ICP-N5		1
ME601	089FB2402A	LEVEL METER UNIT	SLK-5419-01		1
⚠ MF601	083EFR1201	MICRO FUSE	SSFR-125MA		1
OS1201	0772005001	REMOTE RECIVER	HRS0081-01-0100		1
PF3001	1147B50603	FILTER BAND PASS	47B50603		1
PF3002	1147B44604	FILTER.BAND PASS	47B44604		1
PF3003	1147L15604	FILTER LOW PASS	47L15604		1
PF3701	0326220011	COIL TRAP	2622001		1
PF4001	1147656601	FILTER TRAP PASS	47656601		1
PF4002	1147L11602	FILTER.LOW PASS	47L11602		1
PF4003	1147H14603	FILTER HIGH PASS	47H14603		1
PF4004	1147L33602	FILTER LOW PASS	47L33602		1
PF5001	032623001A	COIL.TRAP	2623001		1
PF5501	1147B18601	FILTER.BAND PASS	47B18601		1
PF5502	1147B14601	FILTER.BAND PASS	47B14601		1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PARTS.NO	DESCRIPTION		Q'TY
		-MISCELLANEOUS-		
PF5503	114AL20302	FILTER LOW PASS	4AL20302	1
PF5504	114AL20302	FILTER LOW PASS	4AL20302	1
PF5505	114AL20301	FILTER LOW PASS	4AL20301	1
PF5506	114AL20301	FILTER LOW PASS	4AL20301	1
RY1001	0560722203	RELAY	G5A-237P DC12V	1
RY2001	0560722203	RELAY	G5A-237P DC12V	1
TP601	126V000002	TERMINAL PIN	IPS-2034	1
TP602	126V000002	TERMINAL PIN	IPS-2034	1
TC3001	0100612003	C,CERAMIC TRIMER	VCT54E127A	1
TM1201	0761071001	TRANSMITTER EUR-53201		1
TP3001	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP3002	126V000002	TERMINAL PIN	IPS-2034	1
TP3003	126V000002	TERMINAL PIN	IPS-2034	1
TP3004	126V000002	TERMINAL PIN	IPS-2034	1
TP3006	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP3701	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP3702	126V000002	TERMINAL PIN	IPS-2034	1
TP4001	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP4002	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP4003	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP4004	126V000002	TERMINAL PIN	IPS-2034	1
TP4005	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP4006	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP4007	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP4009	126V000002	TERMINAL PIN	IPS-2034	1
TP5001	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP5002	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP5501	126V000002	TERMINAL PIN	IPS-2034	1
TP5503	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP5504	126V000002	TERMINAL PIN	IPS-2034	1
TP5507	126V000002	TERMINAL PIN	IPS-2034	1
TP5508	126V000002	TERMINAL PIN	IPS-2034	1
TP5510	126V000002	TERMINAL PIN	IPS-2034	1
TU5501	0151101002	RF-CONVERTER	ENC87854	1
⚠ TU6001	0159201004	TUNER BLOCK FE-FB-0140		1
V601	097270R301	TUBE,FLUORSCENT DISPLAY	FIP10BM7	1
W0501	1230T05001	JUMPER IN PCB	1230T05001	64
W0502	1230T07501	JUMPER IN PCB	1230T07501	30
W0503	1230T10001	JUMPER IN PCB	1230T10001	29
W0504	1230T12501	JUMPER IN PCB	1230T12501	5
W0505	1230T15001	JUMPER IN PCB	1230T15001	21
W0506	1230T17501	JUMPER IN PCB	1230T17501	1
W0507	1230T20001	JUMPER IN PCB	1230T20001	1
W0508	1230T22501	JUMPER IN PCB	1230T22501	4
W2201	1230T05001	JUMPER IN PCB	1230T05001	46
W2202	1230T07501	JUMPER IN PCB	1230T07501	16
W2203	1230T10001	JUMPER IN PCB	1230T10001	45
W2204	1230T12501	JUMPER IN PCB	1230T12501	45
W2205	1230T15001	JUMPER IN PCB	1230T15001	33
W2206	1230T17501	JUMPER IN PCB	1230T17501	19
W2207	1230T20001	JUMPER IN PCB	1230T20001	18
W2208	1230T22501	JUMPER IN PCB	1230T22501	13
W2209	1230T25001	JUMPER IN PCB	1230T25001	22
W2210	1230T27501	JUMPER IN PCB	1230T27501	8
W2211	1230T30001	JUMPER IN PCB	1230T30001	2
W2301	1230T05001	JUMPER IN PCB	1230T05001	49
W2302	1230T07501	JUMPER IN PCB	1230T07501	33
W2303	1230T10001	JUMPER IN PCB	1230T10001	21
W2304	1230T12501	JUMPER IN PCB	1230T12501	24
W2305	1230T15001	JUMPER IN PCB	1230T15001	30
W2306	1230T17501	JUMPER IN PCB	1230T17501	21
W2307	1230T20001	JUMPER IN PCB	1230T20001	8
W2308	1230T22501	JUMPER IN PCB	1230T22501	5
W2309	1230T25001	JUMPER IN PCB	1230T25001	2
W2310	1230T27501	JUMPER IN PCB	1230T27501	6
W2311	1230T30001	JUMPER IN PCB	1230T30001	5
W2401	1230T05001	JUMPER IN PCB	1230T05001	20
W2402	1230T07501	JUMPER IN PCB	1230T07501	5
W2403	1230T10001	JUMPER IN PCB	1230T10001	10
W2404	1230T12501	JUMPER IN PCB	1230T12501	4
W2405	1230T15001	JUMPER IN PCB	1230T15001	1
W2406	1230T17501	JUMPER IN PCB	1230T17501	4
W2501	1230T05001	JUMPER IN PCB	1230T05001	67
W2502	1230T07501	JUMPER IN PCB	1230T07501	15
W2503	1230T10001	JUMPER IN PCB	1230T10001	15
W2504	1230T15001	JUMPER IN PCB	1230T15001	6
W3001	1230T05001	JUMPER IN PCB	1230T05001	68
W3002	1230T10001	JUMPER IN PCB	1230T10001	23
W3003	1230T07501	JUMPER IN PCB	1230T07501	7
W3004	1230T12501	JUMPER IN PCB	1230T12501	9
W3005	1230T15001	JUMPER IN PCB	1230T15001	5
W3006	1230T17501	JUMPER IN PCB	1230T17501	2
W3007	1230T20001	JUMPER IN PCB	1230T20001	1
W3008	1230T22501	JUMPER IN PCB	1230T22501	1
W3009	1230T25001	JUMPER IN PCB	1230T25001	2
W3010	1230T30001	JUMPER IN PCB	1230T30001	1
X302	10024R0001	CERAMIC,OSCILATOR	CSA4.00MG	1
X1001	10034R0001	CERAMIC.OSCILATOR	KBR4.0M	1
X3001	100D4R4307	CRYSTAL	KD4421FWA	1
X3002	100D4R4306	CRYSTAL	KD0917FDA	1